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APPENDIX 20 (Land Navigation) TO ANNEX G (COMM. TRAINING) TO CST OPORD 04-01

References:

- a. Map, Series, V8215, West Point and Vicinity, 1:50,000.
- b. OPORD: CST 04-01

Time Zone Used Throughout the Order: Local.

Task Organization: See Tab A.

1. SITUATION.

- A. Enemy Forces: See Base Order.
- B. Friendly Forces: The Cadet Field Training (CFT) Regiment consists of 8 Cadet Companies (4 Platoons each with 3 squads). For planning, each company has approximately 156 3rd class cadets to be trained and 28 1st and 2nd class that serve as the chain of command.
- C. Attachments: One FLA with medic team will be OPCON to each site during execution.

2. MISSION. The Land Navigation Committee conducts land navigation training and testing during CFT 2004 from 9 June to 10 July 2004 at three different sites on West Point to inspire, train, and test 3rd class cadets in day/night land navigation Pre-Commissioning Tasks (PCTs) and Military Program Requirement Tasks (MPRTs); to enhance the competencies of the West Point Warfighter; and to inspire all cadets about the Profession of Arms.

3. EXECUTION.

a. Intent.

Purpose. Provide quality day and night land navigation instruction in order to prepare 3rd class cadets for successful completion of all land navigation associated PCTs and MPRTs.

Key Tasks. The five key tasks we must achieve:

- (1) Integrate and conduct day and night land navigation during the Leader Training Program (LTP).
- (2) Train and test cadets on mandated land navigation PCTs and MPRTs.
- (3) Focus training to enhance the competencies of the West Point Warfighter.

Mentor the cadet leadership in the conduct of their responsibilities.

Inspire cadets about the Profession of Arms.

Endstate. At the completion of CFT 04:

- (1) USMA 3rd class cadets are qualified on day and night land navigation IAW PCTs and MPRTs.
- (2) Training was executed without injury or damage to personnel and equipment.
- (3) Cadet chain of command was provided the opportunity to lead their soldiers.
- (4) TF soldiers were fully integrated into all instruction and execution tasks.
- (5) Cadets are inspired about the Profession of Arms.
- (6) Cadets are confident in their dismounted, cross-country, land navigation abilities.

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b. Concept of the Operation. This operation will be synchronized within the following 3 phases. The cadet companies will rotate through the land navigation training in the sequence of Site #1 (Basic Land Navigation and Compass Skills), Site #2 (Land Navigation Training), and Site #3 (Land Navigation Testing). See Tab B for the detailed synchronization matrix.

Phase I: Preparation (08 December 2003 to 24 May 2004)

This phase commences upon receipt of the order and ends upon termination of term end week. This phase will encompass all activities to be completed at home station. Specific tasks to be completed are outlined below.

Unit	Task
Committee Chief	Identify all personnel requirements Identify all equipment requirements Publish Appendix 20 to CST OPORD 04 Coordinate the preparation of all instructional materials Integrate, coordinate and synchronize with DMI and TF leadership
USMA Land Navigation Committee	Verify all personnel requirements Verify all equipment requirements Publish OPORD for each Land Navigation Site Coordinate the preparation of all instructional materials Review AAR and site video from CST 2003
Task Force	Identify and assign by-name manning of all personnel requirements Begin rehearsal of all required class instruction Review AAR and site video from CST 2003 Deploy to Camp Natural Bridge, USMA, New York

Phase II: Execution (25 May to 10 July 2004)

This phase commences upon arrival of the TF to Camp Natural Bridge and ends with training CBT 2 Cadre (Warrior Challenge) on 10 July 2004. This phase will be conducted in 3 sub-phases.

Phase IIa: Site Preparation. This sub-phase begins with equipment draw and ends upon DMI-6 validation. Endstate is all sites validated and ready to train/test cadets.

Unit	Task
Committee Chief	Draw equipment from Cadet Supply Hand Receipt to Site OICs Assist all Site OIC as required Coordinate with Cadet Leadership Coordinate with TF Leadership Coordinate with DMI for Site Validations
USMA Land Navigation Committee	Draw site equipment from Cadet Supply Validate all land navigation lanes Conduct site rehearsals Integrate TF soldiers into the land navigation committee
Task Force	Complete all tasks specified by the Site OIC Draw site equipment from Cadet Supply

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	Conduct site rehearsals Meet all validation requirements specified by their duty position
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Phase IIb: Leader Training Program. This sub-phase begins with arrival of the 1st LTP Company and ends with the last LTP Company completing night land navigation. This will be conducted on 4 separate dates for the leadership of Cadet Basic Training (CBT) and Cadet Field Training (CFT). It will include both 1st and 2nd detail leadership. Endstate is all Regimental and Cadet Company Leadership completing the day and night land navigation portions of the LTP. Site #2 has responsibility to complete this phase of the training. All TF soldiers from Site #1 and #3 will assist as required. There will be approximately 225 cadets that will conduct this training in an 18-hour time frame.

Cadet Unit	Date
CFT—1 st Detail	9 June
CBT—1 st Detail	18 June
CFT—2 nd Detail	2 July
CBT—2 nd Detail	10 July

Phase IIc: Execution. This phase begins upon completion of the LTP and concludes with the final LTP (CBT II Warrior Challenge at site II) on 10 July 2004. Endstate is all cadets inspired, trained, and tested.

Unit	Task
Committee Chief	Consolidate and submit all land navigation reports Conduct liaison with the TF and DMI leadership
Land Navigation Sites	Conduct specific site tasks (see task to subordinate units) Submit daily consolidated report NLT 0500 to Committee Chief Mentor cadet leadership Conduct and integrate safety plans into training Inspire Cadets!

Phase III: Recovery

This phase begins with the last cadet trained and ends with all equipment turned-in and AAR received by the Committee Chief. The equipment turn-in date has been requested and coordinated through MS McNally (tentatively planned for 13 July 2004). Consolidated Site AARs are to be submitted NLT Thursday, 15 July 2004 to the Committee Chief.

Unit	Task
Committee Chief	Coordinate with Cadet Supply for equipment turn-in Confirm all training statistics are submitted to CFT S-3 Receive all Site AARs
USMA Land Navigation Committee	Conduct equipment accountability and serviceability inspection Coordinate site tear down as per Committee Chief guidance Assemble site AAR
Task Force	Complete all tasks specified by the Site OIC

c. Scheme of Maneuver:

(1) Leader Training Program

(a) Primary Training Objectives. Provide a day and night land navigation course for each cadet leader to execute. The land navigation training will be incorporated within the CFT/CBT LTP scenario.

(b) Task, Condition, and Standard.

i. Day Navigation.

Task: Individually navigate to all assigned points.

Condition: During daylight hours, given a map, score card, and lensatic compass.

Standards: Correctly find 5 of 6 assigned points within 3 hours.

ii. Night Navigation.

Task: Individually navigate to all assigned points.

Condition: During night hours, given a map, score card, and lensatic compass. You will travel with a fellow cadet to serve as a lane safety.

Standards: Correctly find 3 of 4 assigned points within 2 hours.

(c) Sequence of Activity and Time. The following timeline for the LTP is specific upon arrival at Land Navigation Site #2. These activities will be executed sequentially as cadet companies arrive IAW the LTP OPORD (reference Appendix 11)

Time	Activity
Arrival (A)	Day Land Navigation Safety Briefing
A+15 minutes	Day Land Navigation Course Execution
A + 3 hrs 15 minutes	All cadets complete
A + 3 hrs 30 minutes	Issue movement FRAGO
NLT 1630	8 th Company Arrives at Site #2
NLT 1645	8 th Company Executes Day Land Navigation
NLT 1945	8 th Company Complete
NLT 2000	100% Accountability and Issue movement FRAGO
2100	Night Land Navigation Safety Briefing
2130	Staff Executes Night Land Navigation
Every 30 minutes	Company Executes Night Land Navigation
0100	Staff Complete and 100% Accountability
100% Accountability + 15 minutes	Company Movement FRAGO
0130	8 th Company Executes Night Land Navigation
0500	8 th Company Complete
0515	8 th Company Movement FRAGO

(2) Basic Land Navigation: Day 1—Basic Skills

(a) Primary Training Objectives. Conduct basic land navigation skills instruction (6 tasks) and dead-reckoning (compass line course) during day and night conditions. Familiarize cadets with map reading and land navigation to prepare them for Day 2 Land Navigation. The 6 tasks support Pre-Commissioning Task TSP # 071-329-1006 (Navigate from one point on the ground to another while dismounted). Tasks will be taught by the Land Navigation Committee. Squad Lanes will be conducted by the cadet squad leader.

(b) Task, Condition, and Standards.

i. Land Navigation Skills.

Task: Instruct cadets on the following identified tasks.

Task #	Task Description	SMCT Number
1	Determine magnetic azimuth using lensatic compass	071-329-1003
2	Orient a map using a lensatic compass	071-329-1011
3	Orient a map to the ground by map-terrain association	071-329-1012
4	Select a movement route using a map	071-326-0515
5	Measure distance on a map / Estimate pace	071-329-1008
6	Use a compass at night	None

Condition: During daylight hours, given a map, terrain model, lensatic compass, and certified instructor.

Standards: Correctly demonstrate each of the performance measures identified in Soldier's Manual of Common Tasks, dated October 1994.

ii. Day Navigation.

Task: Individually navigate to all assigned points.

Condition: During daylight hours, given a score card, lensatic compass, and "self-correcting" land navigation course.

Standards: Correctly find 4 of 5 assigned points within 1 hour.

iii. Squad Lanes.

Task: Navigate to all assigned points.

Condition: During daylight hours, given a score card, map, lensatic compass, and land navigation course.

Standards: Correctly find 3 of 5 assigned points within 3 hours.

iv. Night Navigation.

Task: Navigate to all assigned points as a two person buddy team.

Condition: During night hours, given a map, score card, and lensatic compass. You will travel with a fellow cadet.

Standards: Correctly find 3 of 4 assigned points within 2 hours. The 1st two points are self-correcting, the last two are not.

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(c) Sequence of Activity and Time. The following timeline will be executed for Land Navigation Site #1. Cadets will bivouac at Site #1 as per CST Training Calendar.

Time	Activity
0630	Arrive at Site #1
0700-0715	Day Land Navigation Safety Briefing
0715-0915	Task #1-5 Instruction
0930-1200	Execute Day Land Navigation Course
1200-1300	Lunch/Rest/100% Accountability
1300-1600	Squad Lanes Execution
1600-1700	100% Accountability/Rest
1700-1845	Cadet Leadership Time (Eat and establish bivouac area)
1845-1900	Assemble in bleachers
1900-2000	Task #6 Training
2000	Night Land Navigation Safety Briefing
2130	Execute Night Land Navigation
2330	Last cadets begin the course
2330	1 st cadets complete
0130	Last cadets complete
0130-UTC	100% Accountability
UTC	Report status to the Snake Pit

(3) Basic Land Navigation: Day 2—Practice Test

(a) Primary Training Objective. Practice land navigation techniques during day and night.

(b) Task, Condition, and Standards.

i. Day Navigation.

Task: Individually navigate to all assigned points.

Condition: During daylight hours, given a score card, lensatic compass, and land navigation course.

Standards: Correctly find 5 of 6 assigned points within 3 hours.

ii. Individual Map Skills.

Task: Basic Map Reading skills taught during MS102 and reviewed during Squad Lanes on Day 1.

Condition: During daylight hours, given a map, protractor, and test booklet.

Standards: Correctly answer 4 of 5 questions within 30 minutes.

iii. Night Navigation.

Task: Navigate to all assigned points as a two person buddy team.

Condition: During night hours, given a map, score card, and lensatic compass. You will travel with a fellow cadet.

Standards: Correctly find 3 of 4 assigned points within 2 hours.

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(c) Sequence of Activity and Time. The following timeline will be executed for Land Navigation Site #2. Cadets will redeploy to Camp Buckner upon completion of the training.

Time	Activity
0800	Arrive at Site #2
0800-0845	Day Land Navigation Safety Briefing
0845-1200	Execute the Day Land Navigation Course as buddy team
1200-1300	100% Accountability and Refit
1300-1700	Execute the Day Land Navigation Course as individual
1700-1715	100% Accountability
1715-1930	Cadet Leadership Time (eat and refit)
1930-2030	Night Land Navigation Safety Briefing
2030	Execute Night Land Navigation
2230	Last cadets begin the course
2330	1 st cadets complete
0130	Last cadets complete
0130-UTC	100% Accountability
UTC	Report status to the Snake Pit

(4) Day Land Navigation: Day 3—Record Test

(a) Primary Training Objective. Test each cadet’s ability to execute the fundamental skills taught during the land navigation block of instruction. Specifically, conduct individual day and night record course for PCT and MPRT qualification.

(b) Task, Condition, and Standards.

i. Day Navigation.

Task: Individually navigate to all assigned points.

Condition: During daylight hours, given a score card, lensatic compass, and land navigation course.

Standards: Correctly find 8 of 10 assigned points within 4 hours.

{*All cadets will practice on a different lane and attempt to achieve 4/5 points in 2 hours, additionally, all NOGOs have the opportunity to retest in the afternoon}

ii. Individual Map Skills.

Task: Basic Map Reading skills taught during MS102 and reviewed during Squad Lanes on Day 1.

Condition: During daylight hours, given a map, protractor, and test booklet.

Standards: Correctly answer 4 of 5 questions within 30 minutes.

iii. Night Navigation.

Task: Navigate to all assigned points as a two person buddy team.

Condition: During night hours, given a map, score card, and lensatic compass. You will travel with a fellow cadet.

Standards: Correctly find 3 of 4 assigned points within 2 hours.

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(c) Sequence of Activity and Time. The following timeline will be executed for Land Navigation Site #3. Cadets will bivouac prior to movement to the Advanced Land Navigation Committee.

Time	Activity
0800	Arrive at Site #3
0800-0845	Day Land Navigation Safety Briefing
0845-1200	Execute the Day Land Navigation Course (Practice)
1200-1300	100% Accountability and Refit
1300-1700	Execute the Day Land Navigation Course (Record)
1700-1715	100% Accountability
1715-1930	Cadet Leadership Time (eat and refit)
1930-2030	Night Land Navigation Safety Briefing
2030	Execute Night Land Navigation
2230	Last cadets begin the course
2330	1 st cadets complete
0130	Last cadets complete
0130-UTC	100% Accountability
UTC	Report status to the Snake Pit

c. Tasks to Subordinate Units

(1) USMA OIC's

- (a) Briefback Committee Chief on Site Operations IAW monthly schedule (published and distributed).
- (b) Prepare Site OPORD for TF NLT 28 January 2004.
- (c) Submit printing requirements for briefing charts and scorecards NLT 1 March 2004.
- (d) Prepare Site OPORD for each CFT company NLT 1 April 2004.
- (e) Prepare Battlebooks for Sites NLT 3 May 2004.
- (f) Night Site OICs will sign for equipment from Committee Chief and sub-hand receipt to the NCOIC.

(2) Task Force Unit

- (a) Assign personnel as per Task Organization.
- (b) Site #1 NCO's and soldiers practice tasks prior to arrival at Camp Natural Bridge.
- (c) Ensure there are at least two licensed HMMWV drivers and SINCGARS RTO per Day and Night crew.
- (d) Site NCOIC's will sign for site equipment from primary hand receipt holders.

d. Coordinating Instructions

- (1) Each site OPORD will be issued upon the TF Leader's Recon.

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(2) Training Locations.

Site	Location
Land Navigation HQ	WL755761
1: Basic Day and Night	WL759774
2: Practice Day and Night	WL772771
3: Record Test Site	WL762762

- (3) Principal and assistant trainers. USMA Faculty and the TF soldiers at Site #1.
- (4) Equipment and training aids. Latrines, CONEX, water trailers, GP medium tent, and phone will be located at each training site. Each site will have a military vehicle for transportation.
- (5) The uniform for each soldier will be worn as per TF SOP.
 - (a) LBE per CFT SOP with 2 full canteens.
 - (b) Kevlar Helmet to be WORN AT ALL TIMES during training. (Softcaps are worn during setup week).
 - (c) Flashlight with red lens.
 - (d) West Point and Vicinity Map Sheet, 1:50,000, Edition 2-DMA, waterproofed.
 - (e) Lensatic compass.
 - (f) Pencil.
 - (g) Wrist watch.
 - (h) Protractor.
- (6) Safety
 - (a) Individuals will carry 2 canteens of water at all times.
 - (b) Each site will have an emergency azimuth for cadets to follow if lost.
 - (c) Phone numbers (emergency contact and site headquarters) will be placed on scorecards.
 - (d) Dangerous spots will be illuminated at night.
 - (e) Night courses will have definitive boundaries with safeties strategically located.
 - (f) Heat injury prevention and first aid will be reviewed daily (hourly, if required).
 - (g) 100% accountability will be taken at the end of each major portion of the training day.
 - (h) Medics with ambulances will be at each site. They will be briefed by the NCOIC. Only emergencies (life, limb or eye sight) will be evacuated by the ambulance, in which case a back-up ambulance will be requested. Routine will be evacuated by the cadet leadership.
 - (i) Each site will have a safety SOP that covers aspects peculiar to that site.
 - (j) All briefings will include a safety brief of the above items.
- (7) The Best Land Navigation Company is determined by a weighted average of the combination of the 'first time GO' percentage and the number of cadets that exceed standards (10/10) on the Day and Night Record Course conducted at Site #3.

4. SERVICE SUPPORT.

- a. Class I. A-M-A is the ration cycle in the field. The augmentation personnel will eat meals from their own mess hall. The night crew will eat in the mess hall at Camp Natural Bridge prior to arrival at the night course. Water buffaloes (2 per site) have been coordinated for drop off on 18 June. Site NCOICs will coordinate with the TF S&T Platoon for resupply.

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- b. Transportation. Task Force personnel move between Camp Natural Bridge and their sites by Humvee.
- c. Sanitation. Porta Potties have been coordinated for drop off on 4 June.

5. COMMAND AND SIGNAL.

- a. Command. See USMA Summer Augmentation Request.
- b. Signal. As per USMA SOI.
 - (1) Each site will maintain FM communications on the site.
 - (2) Each site will maintain communications with the TF Company Headquarters and the Snake Pit. Primary will be FM; land line will be alternate.
 - (3) All cadets serving as safeties on the course will have FM communication issued from cadet supply.
 - (4) Reports will be submitted IAW attached schedule.

Acknowledge:

STANLEY
COL

OFFICIAL:

Talbot

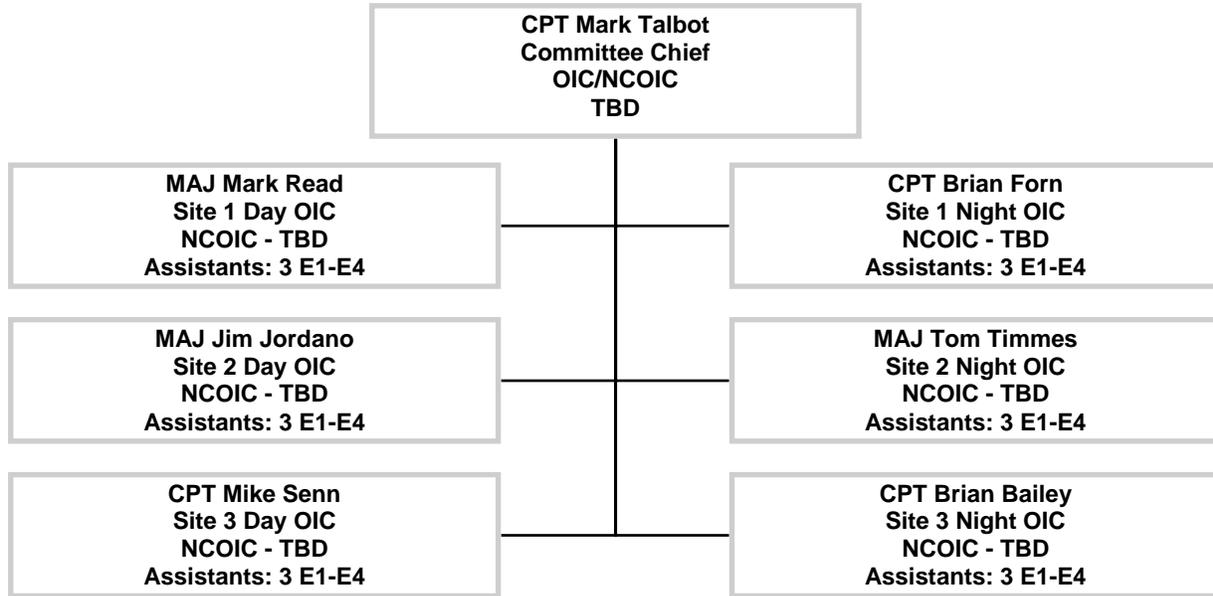
Land Navigation Committee Chief

Tabs

- A. Task Organization
- B. Land Navigation Calendar
- C. Reporting Requirements
- D. LTP Synchronization Matrix

1. The current Department of Geography and Environmental Engineering Committee and Task Force Organization is outlined in Figure 1.

Figure 1
Task Organization



2. A summary of the Task Force Augmentation Requirements is outlined in Table 1.

Table 1
Augmentation Unit Requirements

Job Title	Rank	Quantity
OIC	1LT/2LT	1
NCOIC	SFC	1
Site NCOIC	SSG/SGT	6
Assistant Site NCOIC	SGT/CPL	6
Site Crew	PV2-SPC	12