

IED TM Lesson 2.7: Static Force Protection in an IED Environment



Overview

2.7.1 Principles of Defence

2.7.2 Forward Operating Base Design

2.7.3 Surveillance and Target Acquisition Planning



Terminal Learning Objectives

At the end of this module, the participant will be able to describe practical measures to reduce the threat of IEDs whist in static locations (Forward Operating Base) in an operating environment affected by IEDs.

Introduction

- Numerous large scale FOB overruns.
- FOB attacks can have high casualty rates, seizure of weapons, ammunition, vehicles and equipment.
- Incidents usually involve the use of IEDs.
- The incidents also carry significant propaganda value.
- Many overruns attributed to poor FOB design and TTPs





2.7.1 Principles of Defence

Depth All round defence **M**utual support Reserves Offensive spirit Deception

Depth





Mutual Support









Reserve forces can be committed at the commanders digression



Offensive Spirit



Deception















2.7.2 Forward Operating Base Design

Likely Types of Attacks

- Direct Fire
- Hand thrown weapons e.g. grenades
- Indirect Fire
- IED attacks e.g. PBIED, VBIED
- Complex attack- use of more than one method of attack







Big vs Small?

Basic FOB Layout



While setting up or improving a FOB, consider the following :

- **Perimeter** what fencing material to be used ?
- **Accommodation** Locating accommodation and material to be used e.g. tents, ponchos etc.
- **Defensive Positions** Trenches and Fire positions.
- Fields of View Clearing your arcs and securing dead ground.
- **Security** Patrols, sentry positions and entry & exit points.

Perimeter

FOB Wall – HESCO, Sandbag, Berm?

Anti-vehicle – Ditch, barrier

Anti-personnel – Razor wire or fence.





Accommodation

Technical accommodation, HQs or sleeping and eating areas.

- Dispersion
- Compartmentalization







Compartmentalization



Defensive Positions

Consideration needs to be made for where our defensive positions are sited and how they are constructed.

- Sentry Positions
- Trenches or individual fire positions

Defensive Positions – Sentry/Sangars

- Interlocking arcs or fire (mutually supporting).
- Construction.
- Elevation.
- Range cards.



Defensive Positions – Sentry/Sangars











Defensive Positions – Sentry/Sangars



Defensive Positions – Fire positions and Tenches

- Trenches are positioned between sangar positions, this allows resupply and communications to take place under cover, during a fire fight.
- Extra trenches can be constructed further back into the FOB to give depth positions.
- Subsequent fire positions are to be placed between sangars for dismounts and vehicle platforms. These can be sandbag fire positions, tank scrapes or vehicle ramps.



Fire positions built

into the bund

Use the natural step of the HESCO configuration for fire positions.



Reveted trenches to be used for comms and resupply between sangars and fire positions

Fields of View

- Clear fields of fire are needed to enhance sentry positions and fire positions.
- Trees, hedge rows, bushes, grass and in some cases buildings must be removed to open up your fields of view.
- Dead ground must be marked and denied using obstacles. This prevents the hostile elements gaining the advantage.

Fields of View



Field of View from your sangar, what should you do?

Security

- Security plan should be robust, well planned, rehearsed and regularly monitored.
- Adapt the plan with changing threat.
- Inspections should be carried out regularly.
- Maintain an offensive spirit.

Security – Main Entry Point/Entry Control Point

- The MEP is highly susceptible to VBIED attacks.
- Correct design, security and searching will prevent hostile elements from gaining entry into the FOB.
- Security measures at the entry point .
- Security forces at the MEP are to be vigilant, professional, thorough and not to set patterns.

Security – Main Entry Point/Entry Control Point



Security – Main Entry Point/Entry Control Point





Oil drums or used tyres filled with concrete



Knife rest constructed with pickets or timber, wrapped in barbed wire



Security – Main Entry Point/Entry Control Point



A simple Entry Point on the approach to FOB Entry Point of FOB



FULL EXAMPLE OF A WELL-DESIGNED FOB

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Questions?







2.7.3 Surveillance and Target Acquisition Plan (STAP)

Introduction

- Surveillance The systematic observation of an area. This includes by a person or through other means and includes by visual, audio or other electromagnetic means
- Target Acquisition The detection, identification and location of a target to enable the employment of kinetic or non-kinetic effect.

This is a conventional military skill that can be employed to reduce the threat of direct attacks and IEDs while operating from an FOB.

Developing a STAP

An effective STAP requires a STAP estimate:

- 1. Conduct an assessment of your operating environment.
- 2. Determine where you need to focus your surveillance.
- 3. Allocate resources to look at the areas that require surveillance.
- 4. Review and update (day, night, low vis etc)

Developing a STAP

Stage 4 Review and Update



Stage 1 – Assess the Environment

- Considerations.
- Terrain.
- Pattern of life
- Building of interest
- Roads/Routes
- VPs & Vas
- Dead ground
- Previous firing points

STAP

Stage 1 – Assess the Environment



Stage 2 – Determine Where to Look

- Determining where to focus surveillance assets we can't look everywhere!
- Designate areas of interest (AOIs/NAIs).
- Conduct intervisibility study.

STAP Stage 2 – Determine Where to Look



STAP Stage 2 – Determine Where to Look



1:50.000

Scale

9

STAP Stage 2 – Determine Where to Look

Stage 3 – Allocating Resources

- What resources do we have?
 - Sentry positions (sangars, guard towers)
 - Patrols
 - Cameras
 - UAS/UAV
 - Higher formation assets
 - Neighbouring FOB
- Apply the resource/asset to the area of interest.
- Remember the resource capability need to suit the task.
- Identify gaps and take action
 - Bid for additional resources
 - Move assets
 - Elevate sentry positions
 - Remove vegetation or obstructions

STAP

Stage 3 – Allocating Resources

Stage 3 – Allocating Resources

Using a matrix can help with allocating assets/resources as well as managing the STAP

Ser	AOI	Location	Description	Asset	Priority
1	001	Grid reference	Road	Pri – Sangar NE Sec – Sanger SE	3
2	002		VP	Pri – Sangar SE Sec – Sangar SE	4
3	003		Previous attack	Pri – Patrols Sec – UAV	5
4	003		Disused house	Pri – Sangar SW Sec – Patrols	6
5	005		Hill	Pri – Sangar NW Sec – Patrols	1
6	006		Dry river bed	Pri – Patrols Sec - UAV	2
7	007		Bushes	Pri – UAV Sec - Patrols	7

STAP

Stage 3 – Allocating Resources

STAP

Stage 4 – Review and Update

• Make changes based on changes based on the situation.

Questions?

