

# OPCON



- Battlefield Effects & Immersion
- Custom Tailored Training Courses
- Advanced Combat Training Support



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**Booth 825**





# Combat Training Support Capabilities



## NON-pyrotechnic, Gas-operated Battlefield Simulators

- Superior to Black Powder Special Effects
  - Non-pyrotechnic classification allows devices to be implemented on any range
  - Significantly safer for training operations
  - Rapid lane reset for maximum training efficiency
  - No special licensing required and lower per-shot cost

## Fully immersive training personnel and equipment

- Foreign Tactics, Weapons and Uniforms
- Civilians on the Battlefield (COB)
- Interpreters and Foreign Language Personnel
- Scenario driven, realistic battlefield trauma

## Subject Matter Experts

- Professional - Training and education focused
- Combat experienced technicians and operators
- Mobile Teams - Capable of quick fill training needs

## Training Development

- Work directly with our team to design and execute the exact training needed to achieve combat readiness.



# **Battlefield Effects**



## **What makes OPCON products so unique:**

OPCON employs advanced ordinance simulators, providing superior realism to any training combat environment in a safe manner.

After years of research and development, OPCON's engineering team has created a cost effective battlefield effects simulator which is lighter and more easily concealed than those currently on the market.

OPCON products feature patent pending components that make these devices unique. The combination of these distinctive features sets OPCON apart from its competitors by ensuring consistent and quick firing, no matter the conditions.

## **Simulator Capabilities:**

- Indirect Fire
- Fire Control
- Call for Fire
- Roadside IED
  - Radio Controlled
  - Command Detonated
- Close Air Support (CAS)
- Vehicle Bourne IED
- Close Quarters IED
- Suicide Vest
- Heavy Machine Guns
  - .50cal (M2)
  - Soviet DShK
- Rocket Propelled Grenade (RPG)
- Anti-Personnel Mine
- Anti-Tank Mine
- Blank Fire Foreign Weapons
- Lightweight Compact Simulator for Dismounted Operations



# Blast Simulator Features

## Design and Construction

OPCON's superior Battlefield Simulators are specifically designed to support military training operations.

The rugged construction allows for maximum durability while maintaining ease of functionality. Each design enables the units to be easily concealed and visually adapted to the training terrain.



## Capabilities

- DoD 60559.9-STD and AFMAN 91-201 Compliant.
- Classified as a **non-pyrotechnic device**.
- Can be utilized in close proximity to mounted and dismounted personnel.
- Operates in heavy rain, high winds, extreme cold, desert conditions, and beach landing operations.
- Devices are capable of being fired with either a Wired Controller or a Wireless Remote.
- If using the wireless capability, over 100 devices can be fired by single operator in a static position.
- Single shot and rapid fire capable.
- An assortment of biodegradable blast powder pucks can be utilized to demonstrate various effects to include; Natural Earth, Black, Yellow, Flash Powder for Night Operations, and White Phosphorus.

## Safety Features

When using the Wired Controller, user must initiate a safety function in conjunction with the firing trigger to eliminate the possibility of a misfire.

The Wireless Remote function operates on a secure network utilizing a four part firing sequence to ensure safe and reliable functionality.

The firing module will only respond to the remote containing a synchronized network MAC address which prevents any other remote or electronic transmitter from firing the system.



# Explosive/Indirect Fire Simulators

EXS-60



"Arty Box"



## Design and Construction

OPCON's state of the art Indirect Fire Simulator (IDFS) is designed to be recessed in the training environment allowing for maximum concealment.

The tapered lid and internal structure provides rigid support ensuring operational integrity in the event the unit is struck by a vehicle.



## Specifications

- Replicates enemy IDF, Artillery Call for Fire, RPG Point of Impact
- Designed for use against mounted operations in open terrain up to 1000 meters apart.
- Single-user action (appx. 50lbs)
- Emits 100-120 dB blast registration
- Adjustable blast direction of 0° - 90°
- Rapid-Fire capabilities allow for a quick lane reset

## Self Contained Operations

The oxygen/propane tanks are secured internally and protected with additional structural reinforcement. This internal tank design enables the units to be placed autonomously, eliminating the need for external hoses, wires, or components.

The unit can be used by a single operator to simulate a point of impact (POI) or in a firing sequence to replicate IDF bracketing and Fire for Effect (FFE). OPCON's advanced simulator design allows for rapid lane reset ensuring maximum training exposure.

## EXS-80



## "The Cannon"



### Specifications

- Replicates IED, Close Air Support, Enemy IDF
- Designed for use in lane training exercises for armored vehicles.
- Single-user action (appx. 40lbs)
- Emits 120-140 dB blast registration
- Adjustable blast direction of 0° - 90°
- Rapid-Fire capabilities allow for a quick lane reset

## EXS-40



## "The Man-Pack"





## Specifications

- Designed to be utilized during dismounted maneuvers by incorporating a rucksack frame carrying system for both the unit and the gas tanks.
- Replicates IED, Enemy IDF, Artillery Call for Fire.
- Single-user action (appx. 25lbs)
  - Lightweight, compact, and rapidly deployed.
- Emits 80-100 dB blast registration.
- Equipped with a collapsible bipod for adjustable blast direction.



## SVEST Simulators

- Lightweight
- Easily concealed
- Command detonated
- Quick Reset

## VBIED Simulators





## Heavy Machine Gun Simulators



## Foreign Weapons



## RPG Simulator





## Additional Products Provided:

### Smoke Effect

OPCON Training Solutions is an authorized reseller for Enola Gaye Products. EG manufactures high quality colored smoke specifically designed for military and first responder training. Every smoke device uses non-toxic smoke that does not produce flames when ignited and comes in a wide variety of colors to include: black, white, yellow, red, green, and blue. Each device burns for ninety seconds, making emergency training scenarios more realistic and safer to prepare for.

All smoke effects can be used in conjunction with any OPCON simulator and fired from either a Wired Controller or from a Wireless Remote. This feature enables the user to remove themselves further from the action and provide a more authentic training experience.



Smoke devices are an essential tool in combat training and can replicate many scenarios, such as:

- Chemical, Biological, Radiological, and Nuclear attacks
- Screening or Concealment
- Casualty Evacuation
- Position Marking
- Signaling
- OPFOR Operations

### Special Effects Blast Simulation

OPCON manufactures a unique line of visual effects shots that can be added to any blast simulator. Every Powder Containment Shell, or "PuCS" for short, is biodegradable and environmentally safe. They are weather resistant, and come in a variety of colors to include: Natural Earth, Black, and Yellow.

Two additional effects include Night Operations and White Phosphorus. These PuCS use a proprietary blend of components to provide a flash effect more visible in low light environments to enhance training operations at night.



# Call for Fire

## Live Fire Simulation Course (CFF-LFSC)

### Course Overview

OPCON Training Solutions has developed a comprehensive Call for Fire - Live Fire Simulation Course (CFF-LFSC) replicating a call for fire mission. This course is designed to bring students one step closer to total proficiency with delivery of simulated rounds utilizing an immersive live fire training event.

This is achieved by placing students on a real world observation point overlooking the "battlefield," while adjusting fire on a three dimensional plane and experiencing the realistic signature and report of impacting rounds.

Simulated Observation Point



Blast Signature at 200M

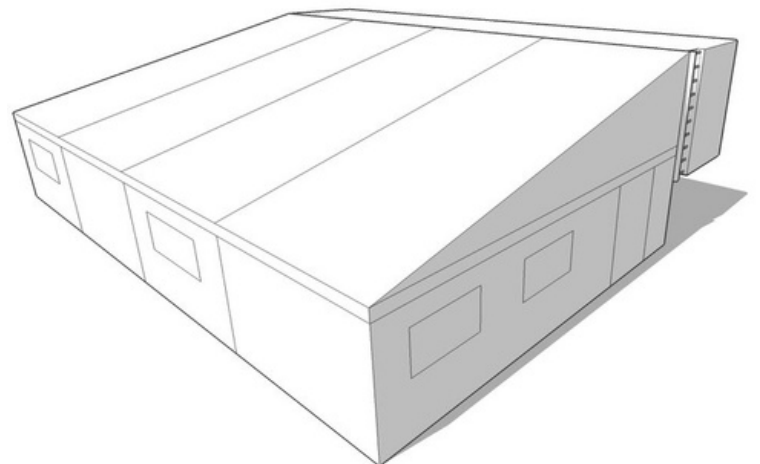


With the use of our Indirect Fire Blast Simulators, OPCON is able to achieve an authentic down range blast simulation at a fraction of the cost of live munitions.

Classified as NON-PYROTECHNIC, these simulators make it possible to implement this course on any range in all weather conditions. OPCON's simulators are easily deployed and the innovative design allows the lane to be reset in minutes for the greatest training efficiency.

OPCON is also able to provide a Mobile Training Center (MTC) on any range. The MTC can be utilized as a classroom for onsite training remedial training as necessary, or even as a Range Operations Center.

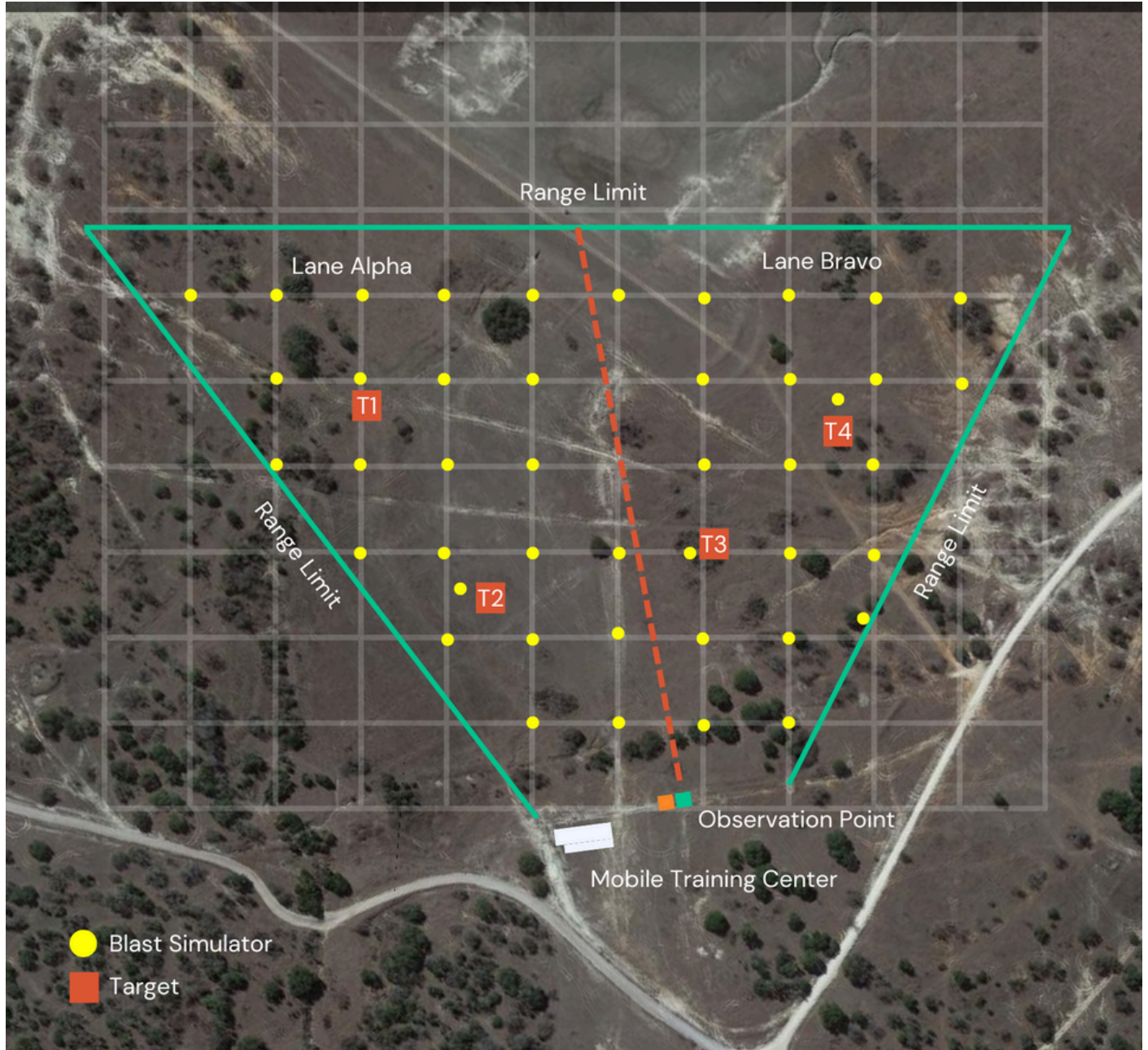
Mobile Training Center





# CFF-LFSC (Continued)

The live fire training portion consists of single or multiple training lanes based on the unit size and training requirements. The average training time per student for basic call for fire simulation takes approximately five minutes to complete a four to six shot adjust fire and fire for effect on target.



With the use of multiple lanes, alternating students can continue firing without pause while each lane is reset. OPCON can also provide a set of proficiency metrics to gauge the pass/fail status of each student followed by remedial training as needed.



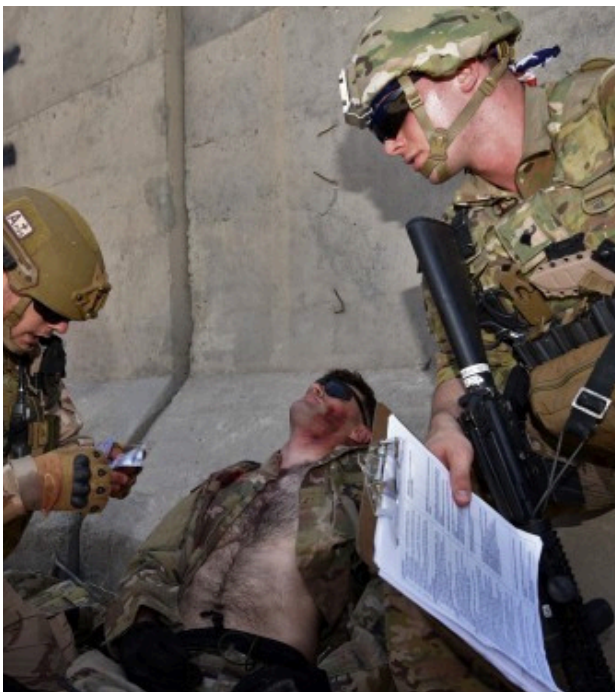


OPCON implements its patented simulators in conjunction with personnel, wardrobe, props, caches, and battlefield effects as well as top of the line moulage experts to guarantee the most realistic training on the market today.



At OPCON, the key to mission success relies on our mobile training teams. These teams consist of highly skilled and extremely knowledgeable personnel who travel to your training site fully equipped and capable of developing and implementing full scale training scenarios.

OPCON is an innovator in scenario based training development. We strive to set the industry standard for immersive and realistic training environments, while simultaneously achieving all training objectives in an efficient and cost effective manner.



We pride ourselves in operating under the premise that mission has priority, and we understand the importance of placing educational value above the bottom line.





# Battlefield Immersion



Role players greatly enhance battlefield immersion experience by providing a realism that directly supports theater specific atmospherics.

OPCON role players include:

- Civilians on the Battlefield
- Foreign Language Speaking Civilians
- Language Specific Interpreters
- Medical Scenario Role Players
- Diplomatic Role Players



- All OPCON role players must complete a training course to ensure a clear and concise understanding of the required scenario objectives.
- Our goal is to provide a cost effective alternative to using military personnel in these positions.
- We strive to employ local veterans to support the community and add value to the training.



# Opposition Force



OPCON has the ability to completely outfit and arm an internal OPFOR element using training unit personnel or hire and train civilians from the local area to meet training objectives. OPFOR can range from a small militia force to a conventional uniformed military.

In addition, we are able to create or assist with scenario development to ensure realism and tactical consistency.



## OPCON utilizes:

- Trained Personnel
- Foreign Weapons
- Props, Costumes and Weapons/Explosives Caches





# Moulage

OPCON's team of special effects experts creates realistic injuries and situations for immersive medical training in simulated high stress environments. We can develop a moulage package specific to the training objectives including, but not limited to, any of the following:

- Gunshot Wounds
- Mangled Limbs
- Arterial Bleeds
- IED Blast Wounds
- Compound Fractures
- Burns
- Realistic Smells





# **Mobile Training Teams**

OPCON utilizes mobile training units onsite at any exercise location. These teams consist of subject matter experts able to facilitate in depth, professionally designed, training curriculums to meet any individual or unit requirements.



## **Subject Matter Experts**

- OPCON instructors consist of subject matter experts in specialized fields of study and real world experience and application.
- Instructors are capable of leading or supporting any training scenario or curriculum developed by OPCON or the training unit.

## **Cost Effective**

OPCON Mobile Training Teams are self sufficient and capable of providing all administrative, logistical, and operational requirements. Our capabilities and infrastructure allow us to adjust each training program to fit the specific needs of the client, large or small.

## **Rapid Deployment**

- MTT's are capable of supporting rapid fill contracts or short notice requests.
- OPCON's equipment is developed and manufactured in house allowing us to modify and deploy devices and personnel to fulfill unforeseen variations in training schedules.

## **Scalability**

MTT's travel to your training location with all necessary equipment and support assets required to produce the highest quality educational experience. By utilizing MTT's, units can focus funding toward training personnel instead of travel and other logistical costs.





## Training Development

OPCON prides itself on developing realistic training programs and scenarios specific to unit requirements. Our development team can work directly with unit training officers to create dynamic curriculums geared toward distinct exercise initiatives. OPCON provides the assurance that each program is fully resourced and executed as planned.



OPCON tailors each program to fit the client's objectives. We provide the best possible training by utilizing battlefield effects and immersive methods to mimic real world scenarios. Our personnel have extensive experience in transforming any operational area into a realistic, simulated environment.





# Conventional Warfare Effects Package

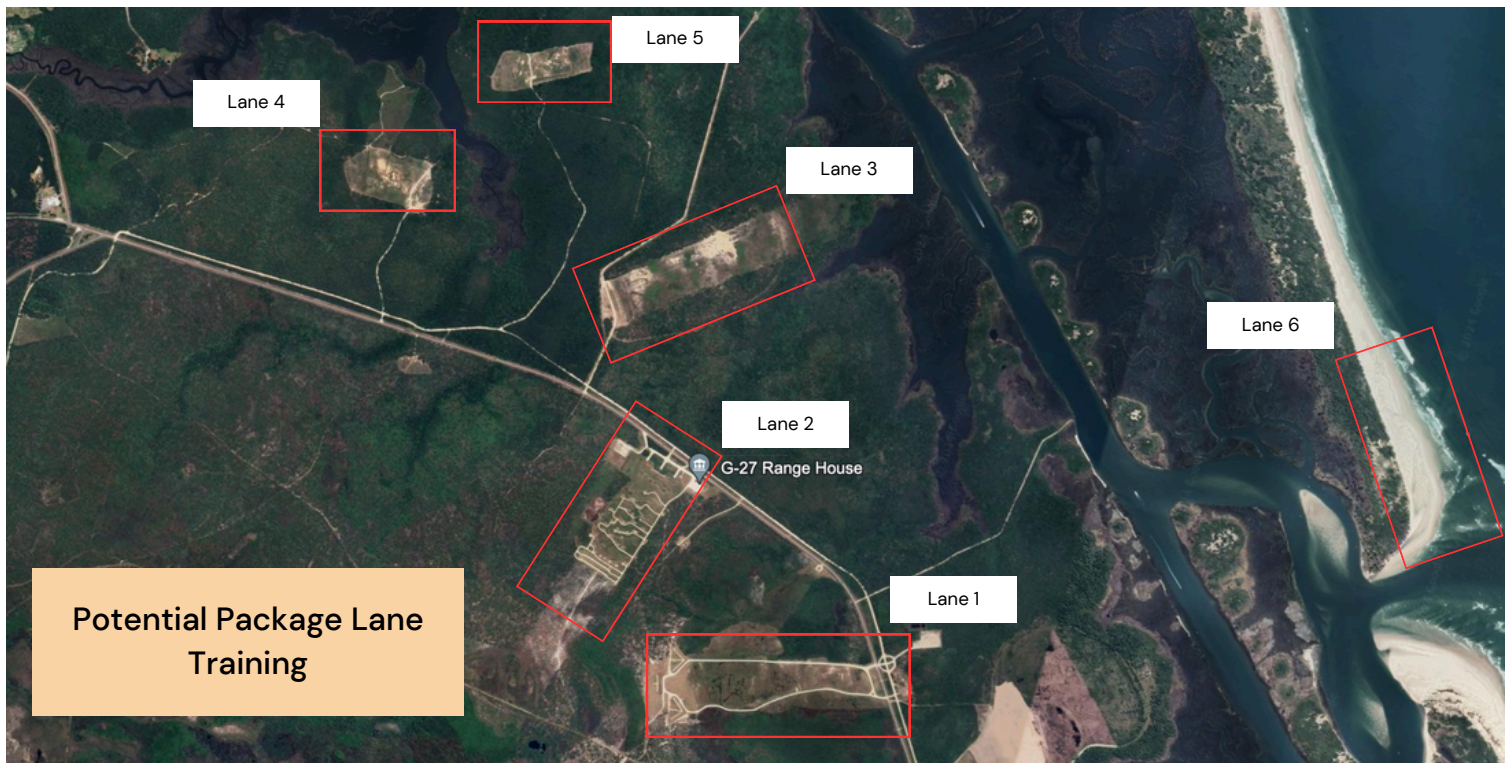
OPCON can create custom built packages to meet your units size and training needs. These all encompassing packages include a variety of explosive blast simulators, heavy machine gun simulators, and an assortment of our proprietary PuCS. Our leasing options also come with Tech Support, full warranty while under contract, simulator servicing, as well as access to OPCON's pre-built training materials.

## **Battalion Tier Package:**

- (28) EXS-80 Blast Simulators
- (16) EXS-60 Blast Simulators
- (4) EXS-40 Blast Simulators
- (1) MOAB
- (4) Heavy Machine Gun Gas Operated Simulators
- (500) PuCS/Simulator

**LEASE** - Complete effect packages  
**TRAIN** - At your own discretion  
**ADVANCE** - Combat Readiness by simulating conventional warfare environments

## Conventional Warfare Effects Package - Use Cases



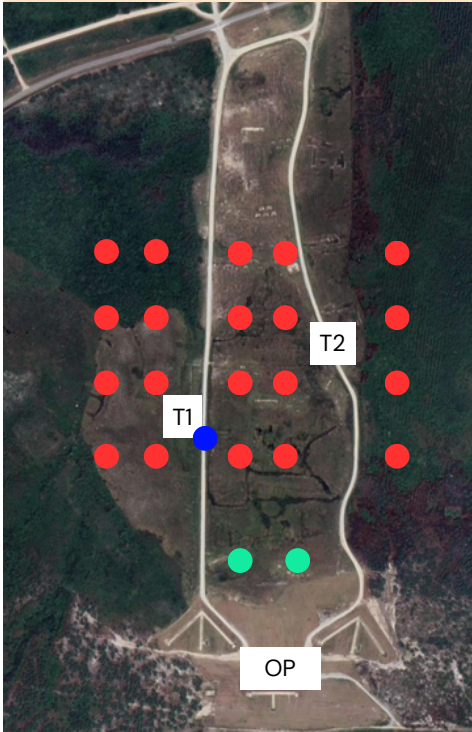
### **See Example Training Lanes (Next Page)**

- All lanes pictured can be run concurrently with the Battalion Tier Conventional Warfare Effects Package
- Our unique technology allows for pre-execution digital mapping of training lanes
- Lane setup and curriculum support available as services



### Lane 1 – Call for Fire

- EXS-80 (20)
- EXS-60 (2)
- MOAB



### Lane 2 – Marksmanship

- EXS-60 (9)



### Lane 3 – Dismount React to Contact

- EXS-60 (1)
- EXS-40 (4)
- HMG (1)



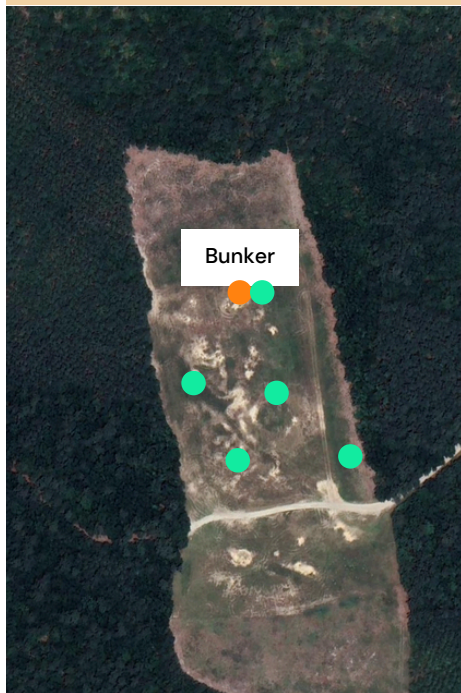
### Lane 4 – IED/ React to IDF

- EXS-80 (5)
- EXS-60 (1)



### Lane 5 – Dismount Assault Hard Target

- EXS-60 (5)
- HMG (1)



### Lane 6 – Beachhead

- EXS-80 (3)
- EXS-60 (7)
- HMG







Please visit our website for:

Our capabilities in action,  
pricing, and partnership information.



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