



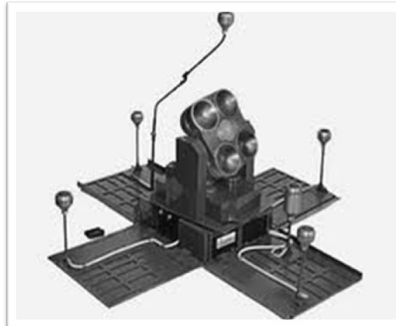
MCoE IED Defeat

Current Events

As the conflict in Syria wages on, the presence of foreign fighters and foreign aid grows, including shared tactics. Recently posted on a pro-jihadist website, a familiar weapon that was used in neighboring Iraq has been loaded to the forum to include a guide for production. The device is an Anti-Helicopter IED, which confirms that tactics, techniques, and procedures (TTPs) are being shared. This device was derived from an even more sophisticated device that incorporated a single or array of explosively formed projectiles/penetrators (EFPs). And from battlefield experiences with EFPs in central and southern Iraq, it is known that this is currently the deadliest IED used against vehicle targets; armored or not, the most effective, most causality producing IEDs. While devices utilizing EFPs in this conflict have not been as abundant as seen in Iraq, it is only a matter of time before their employment could be expected in more rugged areas that vehicles cannot traverse through and our troops must be airlifted in.

Increased operational safety will come from remaining one step or more ahead of our enemies' IED related activities. Warfighters on the ground, in the air, at home, or in a combat environment world-wide must adhere to the old adage of "Stay Alert- Stay Alive." Situational Awareness and knowing your area of operation will aid your unit in recognizing the emergence of new devices and shared TTPs.

Your MCoE C-IED Team continues to remain your primary source for the most up to date training and information. Regardless of whether it is live training, virtual training, conducted in the field, or in a classroom, you can count on us to provide your unit with quality training and support. Although December is a slow month, we provided more than 64 hours of supported field training exercises, 24 hours of IED Awareness training, and Train the Trainer (T3) certification courses. This calendar year ends with the publication of this MCoE IED Defeat newsletter. All members of the MCoE C-IED Team are proud to report that over 29,000 Warfighters at the MCoE were provided C-IED training. No small feat when compared to the numbers of a year ago.



Illustrated are an array of Improvised Anti-Helicopter Weapons systems. While their configuration of EFPs may vary, operationally the results when effectively constructed /employed do not (as seen in last image).

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(CAC login/ Registration may be required for link access)

Emerging C-IED Technology

Colorado veterans making life-saving product for the battlefield

Centennial-based Skydex Technologies produces a product called Convoy Decking. It is carpeting made from a plastic material that currently lines the floors of 13,000 Mine Resistant Ambush Protected (MRAP) vehicles in operation. Skydex's patented opposing hemisphere technology absorbs the shock of IED (improvised explosive device) blasts.

Frank Dravecky, Decking Sales Manager for Skydex, states that "It (Convoy Decking) takes about 72 percent of that blast wave, and it mitigates it. So an event that would be 100 percent chance of injury no matter what, we take that down to a 10 percent chance of injury, that everyone's gonna get up and walk out of that vehicle."

At the Skydex research lab and warehouse in Centennial, CO, they've figured out their plastic lining can be used on pretty much everything to protect Soldiers. From the inside of helmets, to guard against traumatic brain injuries to footwear. In fact, the plastic material is the same technology used in Nike Air tennis shoes.

Inside their test lab, Skydex workers put the life-saving plastic to the test. One machine recreates the force of a bomb, another simulates the extreme hot and cold conditions of the battlefield, to see if the plastic holds up.

(Click [here](#) to read more)



Jeremy Hubbard reports, Skydex utilizes a huge shock tube that mimics the effects of a huge IED blast, big enough to blow up a large military vehicle. The scaled-down blast simulations show them how well their product works, and what needs to be done to improve it. [KDVR.com](#)



"The SKYDEX Convoy Deck Max represents an improved design from the company's current Convoy Deck. The e-max technology absorbs 127 percent more floor velocity than the current product compared to a bare floor, further improving survivability for vehicle occupants. In addition, Convoy Deck Max can be scaled to meet the threat level for the vehicle in which it will be installed".

SKYDEX Technologies

Fort Benning C-IED Training

194th Armor Brigade IED Lane Support

The MCoE C-IED Team provided support to the 194th AR IED lane cadre. SFC De Jesus (Range NCOIC) requested assistance briefing current IED threats, IED Stations, and emplacement of devices on the dismounted IED lane. SFC De Jesus and SSG Mendia served as the primary instructors on the lane. The MCoE C-IED Team assisted the primary instructors with the IED briefing and the set-up of the IED display.

C-IED Class: Covered the following areas:

1. Submitting Explosive Hazardous report (EH)
2. 5/25 meters checks
3. Conducting the 5Cs (confirm, clear, cordon, check, control)
4. Three components of an IED (Main Charge, Initiating System, and Casing)
5. Actions upon contact with a PBIED (Compliant and Non-Compliant)

IED Display: The C-IED Team displayed several different types of IEDs, components, precursors, and enablers. A member of the team briefed the RCIED, VOIED, CWIED, EFP, DFFC, DFC, HME, VBIED, PBIED, HBIED and enemy TTP's. Two M1151 HMMWVs with CREW systems displayed and briefed to the Trainees, along with the Thor III system, Minehound hand held detector and the Man Portable Line Charge.

C-IED Lane: The 1/81 Cadre conducted the dismounted lane using the IEDES non-pyro devices and booby traps provided by the MCoE C-IED Team. Several devices were emplaced on the lane to evaluate the Trainees' ability to identify the indicators. If the Trainees identify the devices or indicators, they would be disarmed and the cadre would explain the enemy TTPs.

IED Station: The lane has 10 IED Stations: HME, RCIED, VOIED, House-Borne IED, Personnel Suicide Bomber, Crush wire, Vehicle Borne IED, Explosively Formed Penetrator (EFP), Directional Focused Fragmentation Charge (DFFC), and Pressure Switch. A MCoE C-IED Team member briefed enemy and friendly TTPs, 5Cs, 5 components of an IED, 5/25/200 meter checks, and enablers.



Warfighters of 1/81st AR receive a detailed C-IED enabler briefing from the MCoE CIED Team before conducting their IED dismounted training event.

The following C-IED Tasks and Battle Drills were executed during each iteration:

Task Number/Name
052-192-1270, React to a Possible IED

052-192-1271, Identify Visual Indicators of an IED

052-192-3261, React to an IED Attack

150-718-6717, Plan for Possible IED Threats

171-300-0083, Enforce Rules of Engagement

Fort Benning C-IED Training (cont)



C-IED Support, Mounted React To Contact Support (MRTC)

The MCoE C-IED Team provided Subject Matter Expert (SME) training support to Charlie Company 1/46th BCT. The MRTC lane was conducted at Malone Mount. Mr. Perry, C-IED Team member, met with 1SG Buchanan and 1LT Campbell (Charlie Company 1/46's Commander), to discuss the unit's intent and conduct a recon and assessment of the lane. The assessment provided the team with the information needed to support the unit during the MRTC lane and ensures the commander's intent can be met.



During the MRTC the unit conducted the following individual and collective tasks:

- React to a Possible IED,
- React to an IED Attack,
- Prepare for an IED Threat Prior to Movement, Enter and Clear a Building,
- Submit Explosive Hazard Report (9-Line), Conduct 5/25/200 Meter Checks,
- React to an IED While Mounted, Escalation of Force, and submit a 9 line MEDVAC report.

The unit began by receiving a safety briefing and concept of operation at their staging area located in (J3). The patrols mounted and proceeded down the designated route towards the Malone Mount Training Area where they encountered an inert 155 mm round and a yellow palm oil jug (Hoax IED). After assessing the situation and calling up a 9 line Explosive Hazard (EH) report, the patrol continued on their designated route until they arrived at Malone Mount IED Training Village. The mounted patrol conducted a cordon of the village, while the dismounted Soldiers conducted a recon of the village. During the recon of the village, the Soldiers encountered several local civilians and 3 enemy forces. Upon taking fire from enemy forces, the Soldiers returned fire and neutralized the hostiles before regrouping and remounting their vehicles. After remounting the vehicles, the unit proceeded to leave the village when they were struck by a VBIED. After assessing casualties, the unit returned to their FOB for an After Action Review (AAR).

The MCoE C-IED Team provided training support for the 1/46th BCT, MRTC which was conducted at Malone Mount. A total of 14 iterations were conducted during the two day training exercise. 1SG Buchanan and 1LT Campbell emphasized how the support provided enhanced the lane and that the unit will continue requesting C-IED support.

The Course overview for the 40 hours VMR-2 Minehound Certification:

- Introduction
- Initial Setup
- Metal Detection (MD) Setup
- Ground Penetrating Radar (GPR) Setup
- Sweep Techniques & Detection Methods
- MD Operations
- GPR Operations Dual Detection Operations
- PMCS

Training Tip

Vallon Minehound Dual Sensor Detector (VMR-2) and VMC-1 Metal Detector (Gizmo) Train-the-Trainer (T3) Course Certifications

On 10-14 December 2012, the MCoE C-IED Team hosted a 40 hour Minehound (VMR-2) and Gizmo (VMC-1) detector training course conducted by Mr. Lawrence Primus from Communications-Electronics Command (CECOM). Mr. Primus conducted a five day T3 course at Leyte Field and the Minehound lane located off Sunshine road, adjacent to Lawson Army Airfield. The purpose was to train personnel from separate training organizations on the correct operation of the enablers. In addition, instructors were taught the best techniques and methods to train Warfighters at the Maneuver Center of Excellence on the enablers. The course was two days of classroom instruction, three days of extensive practical exercises on the Minehound lane, to include a hands-on and written test. Each student had to facilitate the course from the introduction to plac-

ing the Minehound into Dual Detection Operations and the Gizmo into operation to become certified. The course instructor answered questions and solicited students for feedback on the separate training techniques learned in class.

The VMR2 Minehound is a compact, dual-sensor detector, which contains Metal Detector (MD) and Ground Penetrating Radar (GPR) capabilities. The dual sensor detector accelerates the detection process for clearing areas identified with explosive hazards such as mines and Improvised Explosive Devices (IEDs). The Gizmo is a MD only, operates the same as the Minehound in MD operations.

The MCoE C-IED Team is prepared to provide **Minehound VMR-2 Operator Training** to Warfighters of the MCoE. To begin, one class will be given per month with a class size limited to 10 students (due to 5 students and 1 instructor ratio). To schedule operator training or use of the Minehound training lane, contact a MCoE C-IED Team member at 706-545-5298/706-544-6246 or click [here](#).



C-IED Team Key Events

- Finished construction of the new C-IED classroom at the Leyte Field facility.
- Provided IED Global Threat Awareness for students of Armored Basic Leaders Course.
- Certified C-IED Training Team on VMR-2 Minehound Dual Sensor Detector.
- Develop improved training material on ICREW system for use in training at Leyte Field.
- Continued training lane support for both Infantry and Armor School courses and tenant units.
- Continued developmental support of Dismounted C-IED Leader Tasks in support of DCT-MT.
- Responded to training related RFIs from various CoEs.
- Continue to expand training influence to reach all levels of Warfighters.

Path Forward

- Support Operator training on VMR-2 HHD at Leyte Field .
- Attend Joint C-IED Training Working Conference.
- Support the CONUS Replacement Center (CRC).
- Respond to RFIs regarding MCoE C-IED training submitted by the Joint Services.
- Share TRADOC “Best Practices” for training with the Force.
- Support Maneuver Battle Lab in conducting a Limit Experiment to develop CONOPs and TTPs for the “Point Man” capabilities.
- Remain flexible, adaptive, and proactive in the team’s efforts to provide the latest relevant training to the Warfighter.

C-IED Team “Behind the Scenes”



C 1/46 IN BN (MRTC)



C 1/46 IN BN (MRTC)

C-IED Team Lead Comments

The MCoE’s C-IED Team strives to bring our customers the best and most relevant training possible. Units’ training sessions have already benefited from the realistic training aids incorporated in their events.

Relevant global C-IED TTP information coupled with the use of virtual rehearsals and the use of VBS2 prior to the live mission have greatly enhanced the new Soldiers’ retention of subject material. In keeping with this focus of sequential, progressive, and relevant training, the team has just added several hand held detectors used in theater to the list of support available to local units.

Units are reminded that C-IED Team support is requested at least two weeks prior to the scheduled training event to allow for coordination and effective support.

The MCoE C-IED Team is on-call to support any requesting unit. To schedule training contact, Tom Dale at 706-545-6577, thomas.l.dale.ctr@mail.mil or Jerry Niggemann 706-545-8823, gerald.e.niggemann.civ@mail.mil.



Quick Links:

[RFMSS
Homepage](#)

[OEF Training](#)

[CALL UTTP
Bulletin 2011-02](#)

[ROC-IED
Training Link](#)

[RAPID Reports](#)

[Marine Corps
Center for
Lessons Learned](#)

[CREW Training](#)

[Attack the
Network
Homepage](#)

[West Point
Negotiation
Project](#)

[Commander’s
Handbook
For Strategic
Communication
and
Communication
Strategy](#)



Tom Dale



MCoE IED Defeat

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L to R: Mr. Fairchild, Mr. Perry, Mr. Black, Mrs. Rivera, Mr. Francis, Mr. Molina, Mr. Freeman, Mr. Dale, Mr. Repicky

Links of Interest

- Joint IED-Defeat Organization @ <https://www.jieddo.dod.mil/>
- KNIFE Training site @ <https://jkknife.jieddo.dod.mil/pages.knifepublic.aspx>
- Center for Army Lessons Learned @ <https://call2.army.mil/>
- Combined Arms Center @ <https://ctd.army.mil/external12/BSTPs/ied-tsp/index.asp>
- Directorate for Counter IED: <http://www.wood.army.mil/dcied>
- Army C-IED Professional Forum <https://forums.army.mil/SECURE/CommunityBrowser.aspx?id=131710&lang=en-US>

Training Support Point of Interest Subject: C 2/19 “Crusaders” Presentation



Around the World

(IED topics from around the world)



Recently Charlie Company 2/19 IN of the 198th IN Brigade received a seven box set of IED Shadow Boxes designed and built by members of the C-IED Team. These boxes are designed to show the basics of the primary categories of IEDs seen throughout the world. These subtle training devices when placed in high trafficked areas serve as a key subject lessons retention tool. Units that receive these training aids can expect to see members of the C-IED team roughly every 90 days for periodic updates unless a pressing topic is brought to life within the world of IEDs.