



# MCoE IED Defeat

## Current Events

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

*"The number one priority is countering the growth of violent extremist organizations, and this is our highest priority at Africa Command and is a continuing challenge to be sure. Whether it's addressing al Shabaab, an al-Qaida affiliate in East Africa, principally in Somalia; a growing extremist network in Libya, across the region into northern Mali; and then troubling re-growth or reemergence of Boko Haram in Nigeria, all signal the importance of countering violent extremist organizations to us at AFRICOM". General Carter F. Ham, Commander of U.S. Africa Command (AFRICOM)*

As 2013 begins, the affects of Arab Spring continue to be felt across the globe. In Africa, groups like Boko Haram and Al Shabaab are continuing to strive to be globally recognized movements. Boko Haram made attempts and in some cases succeeded in several incidents across Nigeria. These incidents included a Christmas day attack on a Christian Church, a suicide bomb attack on a mobile phone company, and a failed attack on a local airfield. Both Boko Haram and Al Shabaab have pledged support and received support from al Qaeda and mimic tactics used by terrorists inside the Afghanistan/ Pakistan areas of operation. With the improvised explosive device (IED) as their main weapon of choice, each of these groups continues to strike fear in the local populace, attempt to show disorder, and failure of progress.

For our Soldiers in the field, training to recognize the indicators for the many different forms of IEDs can be easy compared to trying to recognize tactics, techniques, and procedures (TTPs) that could be migrating in from another area. Regardless of your area of operation, all the data concerning any form of IEDs must be captured and shared so we can give our Warfighters the most up to date information (ref. Rapid weekly update EOM December).

As we begin 2013, your MCoE C-IED Team continues to remain committed to the success of our fighting forces. We can provide your unit with live, virtual, and classroom instruction from the initial entry Soldier to our senior Leaders. IED Awareness classes, Counter Radio controlled improvised explosive device Electronic Warfare (CREW) class, Virtual Battle Space 2 (VBS2), and other enablers will help our Soldiers understand what they are up against and what is out there to help them. We continue to provide training and Subject Matter Experts for both the Mines Training Area and the 194th dismounted IED Lane which hosts training for the Soldiers from 192nd, 194th, and the 198th Brigades which is our largest target audience. We presented Stryker Leaders Course (SLC), 3rd Battalion, 11th IN Regiment Officer Candidates School (OCS) and the Non-Commissioned Officer Academy's Maneuver Senior Leaders (MSLC) Course with IED Awareness classes and 90 day Global IED Threat Updates.



On 6 December 2012 Kabul, AFG intended target was a Senior Intel Chief.



TRIPwire reports: On 27 December 2012, the Nigerian Army killed five and injured two suspected members of Boko Haram, following a shootout between the two groups in Kaduna, Nigeria. The area, in the mainly Muslim north, has been the target of several attacks by Boko Haram since the group's low-level insurgency intensified over two years ago. According to Kaduna Army spokesman Sani Kukashaka Usman, "On the approach to the factory, some suspected terrorists opened fire and also threw already primed Improvised Explosive Devices (IED) at the troops." Usman said seven rifles, remote detonating switches, a detonating cord, and IED materials were found and destroyed.

## Emerging C-IED Technology

### US Army Tests “SCISSOR-G” Infrared Road Clearance System

The US Army claims that its engineers have developed a photonics-based system capable of providing advanced warning of potential threats such as roadside bombs on poor-quality roads.

Known as the Shadow Class Infrared Spectral Sensor-Ground, or “SCISSOR-G” for short, the turret-mounted system has already been used by Soldiers during a 90-day test period.

According to the US Army, the detection of an irregularity on the road ahead does not necessarily mean that a threat is present – meaning that it is still up to the operator to determine whether further investigation is needed, based on the so-called “threat signature” of the object detected. The SCISSOR-G is a complementary system to radars. It can perform region of interest cueing of threats at greater standoff distances, which can be further interrogated by the radar as the vehicle gets closer to the threat.

While the US Army has been working to develop such a system for the past decade, a similar project at Belgium’s Royal Military Academy in Brussels has focused on aiding decision-making by troops with a low-cost, multi-sensor system, also designed to be mounted on armored vehicles.

The “SUM” project features radar, optical detection and an off-the-shelf infrared camera, using a data fusion “engine” to warn of distant hazards in a vehicle being driven at normal cruising speeds, enabling a driver to slow down before a more detailed analysis of the potential threat can be carried out as it is approached. Twelve CERDEC NVESD personnel from three branches combined their areas of expertise to complete the project in the past year-and-a-half.



SCISSOR-G Turret and interface.



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

“The SCISSOR-G consists of a sensor and a multi-sensor graphical user interface, or MS GUI. The sensor is mounted on a vehicle, usually a Husky, using a 10-inch turret with state-of-the-art infrared and high-definition color cameras. The MS GUI has a touch screen monitor to control the turret and cameras.

The MS GUI is flexible enough to enable the sensor control and data visualization to be on the same vehicle as the turret or in a trailing vehicle. The two components of the system enable a single operator to monitor the roadway for threats in real time.”

**Jim Hilger, Chief of the Signal and Image Processing Branch within the U.S. Army Communications - Electronics Research, Development and Engineering Center at Fort Belvoir, Va.**

## Fort Benning C-IED Training

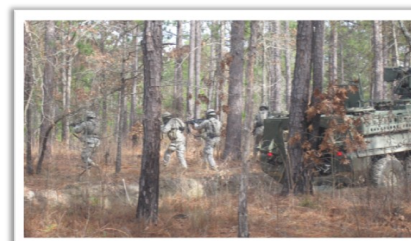
### 198<sup>th</sup> Infantry Brigade IED Virtual and Mounted Lane Support

On 07-08 January 2013, two members of the MCoE C-IED Team provided Subject Matter Expertise in the support of Charlie Company 1/19th IN. The two day Counter-IED training event entailed both live (Mounted React to Contact) and virtual (Virtual Battle Space 2) training. The training was conducted at TA N3 and the MCoE C-IED Simulations Classroom, Leyte Field, BLDG 8070.

SDS Hoeffler (Duty Drill Sergeant) and CPT Morris (Charlie Company 1/19th CMDR) met with members of the C-IED Team to discuss the unit’s training intent. The team assisted by providing relevant training scenarios and realistic affects, which enhanced their training whether in the classroom or on the training lane. The simulations contained several discretely emplaced IEDs along their route of travel, a suicide bomber, VBIED, civilians and insurgent forces within a Ramadi geotypical environment. Each training event lasted approximately four hours and concluded with a detailed After Action Review (AAR) to identify each groups’ strengths and areas requiring additional training .

During the Mounted React to Contact (MRTC), one pyrotechnical device was placed along the route and detonated as the patrol travelled toward their objective. The IED detonation forced each element to dismount and conduct MEDVAC and recovery operations.

One platoon conducted VBS2 training at Leyte Field, while the rest of the Company engaged in their MRTC missions at TA N3. The MCoE C-IED Team supported the unit’s training intent by accomplishing 19 iterations and trained 210 Warfighters during both their mounted lane training exercise and VBS2 training event. In support of Charlie Company 1/19th IN training event, the MCoE C-IED Team provided one pyrotechnical device (JCIT) with LA06s and LA07s, a large array of IED static displays/training aids, and 46 VBS2 systems with associated equipment (i.e., radio headset, driver steering wheels



The following tasks were conducted: React to an IED, 5/25/200, 5Cs, and submit an Explosive Hazard Report.

## Fort Benning C-IED Training (cont)



### Stryker Leaders Course, C-IED Training Event

As part of the Maneuver Center of Excellence (MCoE) C-IED training strategy, we seize opportunities to improve the lecture/virtual C-IED program in the classroom and enhance the mounted/dismounted training on the HSTL. This approach allows the C-IED team the privilege to expose the students to Global IED Threats, IED Awareness Classes, Handheld Detectors, CREW 2 System, M1151s, SPARK, Cyclone Blower, Rhino, C-IED-related VBS2 training, the mock Homemade Explosives Lab, and several devices that replicate an IED attack with sound and visual effects. Within a three day period, 40 Soldiers from Stryker Leaders Course were provided this accumulation of training. During their Mounted React to Contact (MRTC) training on the HSTL, these future Leaders were trained and evaluated on the following tasks: React to a possible IED, Identify visual indicators of an IED, React to an IED, Prepare for an IED threat prior to movement, Conduct hasty vehicle recovery, and Plan mounted/dismounted movement of a Stryker platoon. It is courses like this that allows the MCoE C-IED Team the opportunity to reach and assist future leaders arriving to or departing the MCoE.

During Stryker Leaders Course's Global IED Threat Update, the following items were briefed:

- Counter-IED Facts OEF Statistical Comparison (Jan-Jun) 2011vs 2012
- IED & Demining Events
- IED activities in NORTHCOM, Ireland, United Kingdom, Nigeria, and Afghanistan
- IED types and CACHE Transit that are surfacing in RC-E
- Mounted and Dismounted attack TTPs used in Afghanistan



On January 10, 2013, the MCoE C-IED Team provided leaders from Stryker Leader Course with a detailed Global IED Threat Update using the most current and relevant information provided by RAPID, JIEDDO, KNIFE, CALL, CIT, MCoE G3 IED-D Website, and Warrior University.



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### Training Tip

#### MCoE Future C-IED Initiatives: Emerging Technologies and Development of Digital Learning Content Apps

The Maneuver Center of Excellence (MCoE), Directorate of Training and Development (DOTD) has noted that their Technology Integration Cell (TIC) is currently working on two valuable applications for the Warfighter, soon to be available with the touch of a finger. These applications will be accessible via mobile devices and consists of various C-IED Digital Learning Content and interactive modules for C-IED Concepts and Enablers.

The first application release will allow the Warfighter easy access to the MCoE Counter Improvised Explosive Device Smart Guide (featured in the MCoE IED Defeat Newsletter November 2012, Volume 3, Issue 10). The topics covered with the use of this particular digital application include: Nine Principles of IED Combat, IED Basic Components, Types of IEDs, HME and Bulk Explosives, Encountering IEDs, Post-Blast Topics, Dismounted Patrol Basics, IED Jammers (CREW Systems), additional C-IED Enablers, and Cultural Awareness. The second application released will provide interactive digital learning module capabilities providing the user with an overview interactive experience regarding basic Dismounted IED topics.

Later versions will readily adapt or evolve with the current IED fight, remain highly useful to the Warfighter, and provide secure applications for classified data/updates to C-IED enabler trainers/operators. The MCoE C-IED Team is providing IED SME support to DOTD's Technology Integration Cell while undergoing the development of digital learning content applications. If you have any questions relating to these MCoE driven future initiatives, please contact Roy Elam (Chief, Instructional Technology Development Section) at 706-545-8828 or [roy.m.elam.civ@mail.mil](mailto:roy.m.elam.civ@mail.mil)



Once the C-IED Digital Learning Content applications are completed, they will be available on Warrior University.

## C-IED Team Path Forward

- Close out final support for MBL’s LOE “Point Man” and account for training for experiment aids.
- Continue training support for Units assigned at the MCoE through MRTCs, C-IED Training sites and Professional Development sessions.
- Support the CONUS Replacement Center (CRC) with relevancy updates weekly.
- 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.



### 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](#)

## C-IED Team “Behind the Scenes”

The MCoE C-IED Team provided IED Professional Development (PD) training to the 11th IN Regiment Officer Candidates School (OCS) and Maneuver Senior Leaders Course (M-SLC) Non-Commissioned Officer Academy. The two courses separately attended two hours of C-IED training consisting of the following: IED Facts, Why Insurgents use IEDs, Afghanistan Trends, IED Components, Initiating systems, Basic IED types, Homemade Explosives, Principles of IED-D, Establishing a Baseline, Markers/Ground Sign Awareness, CAGE, IED Confirmations, and Counter Radio-controlled IED Electronic Warfare (CREW) topics.



The focus of training was to provide IED awareness class-based training and communicate the latest enemy IED Tactics, Techniques, and Procedures used globally. Soldiers were informed of the types of IEDs they would likely encounter during deployments (Afghanistan) and were shown videos that provided effective examples of enemy personnel emplacing IEDs against Coalition Forces (CF).



## C-IED Team Lead Comments

First of all, let all of us from the C-IED Team wish all of our reading audience a Happy New Year! The Army and its Sister Services and Allies move forward into 2013 with the understanding that the number of overall forces in Afghanistan will continue to draw down as we focus more on helping the Afghanistan's Defense Forces help themselves. This does not mean that the necessity of effective and relevant C-IED training will diminish in any capacity for our Soldiers, on the contrary, our Warfighters should expect to see the threat of successful TTPs from places like Iraq, Afghanistan and Syria to places closer to home or areas with new partnerships like those in AFRICOM and SOUTHCOM. The possibility of these encounters reinforces the necessity of continual training in the basics of C-IED operations and drills.

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](mailto:thomas.l.dale.ctr@mail.mil) or Jerry Niggemann 706-545-8823, [gerald.e.niggemann.civ@mail.mil](mailto:gerald.e.niggemann.civ@mail.mil).



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.mil/index.aspx>
- KNIFE Training site @ [jknife.mil](http://jknife.mil) website (CAC access only)
- 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.us.army.mil/suite/page/477426>
- Army C-IED Professional Forum <https://forums.army.mil/SECURE/CommunityBrowser.aspx?id=131710&lang=en-US>

**Training Support Point of Interest Subject:** MSCoE Engineer representatives travelled to the MCoE to identify methods for IEDES integration into the MCoE's Dis-mounted Counter-IED Tactics– Master Trainer (DCT-MT) Mobile Training Team (MITT).



### Around the World

(IED topics from around the world)



**NORTHCOM : SOUTHCOM : EUCOM : AFRICOM : PACOM**