



# MCoE IED Defeat

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Inside this issue:

- [Current Events](#) 1
- [CIED Technology](#) 2
- [Fort Benning CIED](#) 2
- [CIED Training Tips](#) 3
- [CIED Team Future Initiatives](#) 4
- [Team Contacts](#) 5
- [Links of Interest](#) 5
- [Around the World](#) 5

Special points of interest:

[Nightlighter Optics Find IEDs Hiding in the Dark](#)

[198th Mounted React to Contact \(MRTC\)](#)

[2012 Train The Trainer \(T3\) Course](#)

[iTunes Application for Basic IED Awareness v1.2](#)

[Hybrid Threat Networks](#)

[Advanced Situational Awareness Training \(ASAT\)](#)

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

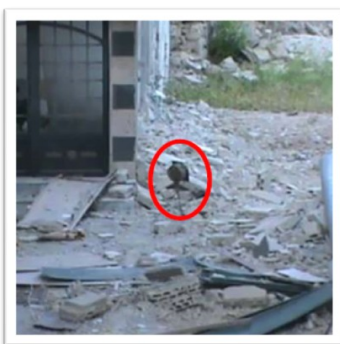
## Current Events

*Let every nation know, whether it wishes us well or ill, that we shall pay any price, bear any burden, meet any hardship, support any friend, oppose any foe, to assure the survival and success of liberty."*

John F. Kennedy (JFK), 35th President of the United States (1961-63)

Each new conflict offers our enemy a test area to assess new tactics and refine old ones. As the conflict continues in Syria, we are seeing the migration of tactics used in both Afghanistan and neighboring Iraq. From targeting key government officials with suicide devices, using culverts for Improvised Explosive Devices (IEDs) emplacement, and even more deadly, the use of the explosively formed projectile/penetrator (EFP). IED networks continue to demonstrate their technical abilities and their knowledge sharing network. Hitting closer to home, Law Enforcement Agencies across our nation are encountering bomb threats and IEDs. The Director of the Pentagon's Joint Improvised Explosive Device Defeat Organization (JIEDDO), Army Lt. Gen. Michael Barbero has testified before Congress that military and civilian law enforcement must work together to plan for the mitigating risks IEDs present on U.S. soil. IEDs are the enemies' weapon of choice, which the Mexican Cartel continue to use for citizen intimidation and competitor elimination. This resulted in 109 reported IED attacks in 2011 between North and South America.

We will continue to see this growth unless we educate ourselves, our Warfighters, Law Enforcement, and even our citizens on remaining situational awareness of their environment and any potential threats. Recognizing things that are not normal, out of place, and reporting them will ensure the safety of not only our men and women on the battlefield, but our citizens at home and abroad.



Explosively Formed Projectile/Penetrator (EFP) on tripod.

Your MCoE CIED Team continues to provide the utmost quality training and training support to all units. With IED Awareness classes, Threat Briefs, IED Stations Brief, and Counter Radio Controlled Improvised Explosive Device Electronic Warfare (CREW) Classes, we continue to educate our Soldiers on the most deadly weapon on the battlefield. Our Live Training support to units conducting situation training exercise (STX) lanes, field training exercises (FTX), and mounted react to contact (MRTC) exposes our Soldiers to the latest TTPs that are being employed in theater. Using Virtual Battle Space 2, our virtual training places our Soldiers on the battlefield where they can employ countermeasures. Using systems like DUKE and THOR III will help them gain an understanding on how these systems will help them survive the next IED event.



Syrian Rebels Test and Use Culvert IEDs.



Assad Regime published photo of an IED mounted atop a pedal go kart, claiming it could be piloted and detonated remotely. Much like the device used by the Free Syrian Army (FSA) on the 10<sup>th</sup> of June in an attack targeting a military roadblock in Damascus.

## CIED Technology

### Nightlighter Optics Find IEDs Hiding in the Dark

Taliban fighters aren't the only threat to American forces in Afghanistan. There are also the nasty explosives they leave behind. But rather than simply reinforce some HMMWVs and hope for the best, a system that can spot IEDs from the air, up to a mile away, day or night has been developed.

This high-altitude Intelligence, Surveillance, and Reconnaissance (ISR) system utilizes a suite of ultra-high resolution sensors and night imaging devices mounted on the belly of a reconnaissance aircraft. Filming from above, these sensors identify IEDs and other hazards embedded along roads and trails. This 1600-pound airborne electro-optical sensor package, integrated into a C-12 aircraft, is designed to not only search for immediate threats like implanted IEDs, but also produce high-quality terrain maps that can provide essential intel for upcoming missions.

During sweeps, the Highlighter system generates wide-area images in both color and monochrome using its [WFOV cameras](#). On-board image processing software automatically scans these images for potential mined threats and, if it gets a hit, a trained imagery analyst (also on-board) will verify the threat and disseminate that information to nearby ground troops over encrypted UHF/VHF voice and data lines. The only limitation was that the Highlighter system was most effective at spotting explosive threats during daylight hours. The system was essentially useless whenever the sun set. So General Atomics created the new Nightlighter system by augmenting Highlighter with high-resolution night vision sensors. The Nightlighter prototype recently completed flight testing aboard a Twin Otter aircraft at China Lake, California. The Joint Improvised Explosive Device Defeat Organization (JIEDDO) helped sponsor the event, the Olympus Flight Test. Should the Nightlighter pass further upcoming trials, it will eventually be adapted for use aboard the King Air 350 aircraft. (Click [here](#) to read more)



"Identifying and defeating IEDs before they detonate is one of today's most pressing Intelligence, Surveillance, Reconnaissance (ISR) challenges. Nightlighter's ultra high-resolution imagery not only detects IEDs in day or night, but also can be processed rapidly into precision, wide-area, three-dimensional relief maps of terrain and structures that are of high value to both mission planners and the Warfighter."

Dr. Michael Perry,  
Vice President,  
Reconnaissance  
Systems Group, GA-  
ASI.

## Fort Benning CIED Training

### 198th Mounted React to Contact (MRTC)

Commanders and Drill Sergeants are taking a different approach to preparing their trainees for the many threats on today's battlefield. Mounted React to Contact lanes are the tool used by OSUT and AIT units to familiarize trainees with friendly and enemy TTPs. CPT Dills, Delta 2/19<sup>th</sup> Commander, enhanced his unit IED awareness training through the use of CIED doctrine, experience from the battlefield, and assistance from the MCoE CIED Team. The commander integrated Channelized terrain, Aiming marker, Ground, and Environment (CAGE) into the scenario, although the trainees were not familiar with the acronym, but they were familiar with basic IED awareness techniques. Although leaders are trained to conduct good route selection prior to their mission, there are times this option is not available, and the element is channelized onto a specific route that provides the enemy the advantage. This is an objective that the leadership chose to challenge the trainees, in conjunction with an IED attack, complex ambush, and entering a village to neutralize a High-Valued Target (HVT). The trainees, without realizing, used the acronym CAGE to identify the danger area, which was the training objective of the commander and drill sergeants. Two Strykers and a HMMWV were used to transport the platoons and negotiate the narrow route. To be successful, they needed to identify the threats, attack, and eliminate them. First event was an IED attack, which was emplaced on the route with an aiming marker, and two pyrotechnical devices visible on the route. Following the IED attack, the platoon reacted to an IED while Maintaining Movement, assessed the damaged, and submitted an Explosive Hazardous Report. The platoon received clearance to move to the objective, but enroute they encountered a complex ambush, in which they eliminated the attackers and moved to the village. Once in the village, Alpha team entered the targeted house to neutralize the HVT as Bravo team provided over watch.

The CIED Team assisted Delta 2/19<sup>th</sup> IN with conducting their units' Mounted React to Contact lane by incorporating current enemy TTPs to each training scenario and illustrating enemy IED employment tactics utilizing both the SCOPIS Fox and JACIT for their pyrotechnic IED simulation capabilities.



The following CIED Individual Battle Drills tasks were evaluated; React to an IED while Maintaining Movement (05-3-D0017), Conduct the 5Cs (05-3-D0016), Conduct a Person Search (052-192-1272), Conduct the 5/25 Meter Scan (05-3-D0019), Submit an Explosive Hazard Report.





## Available CIED Training

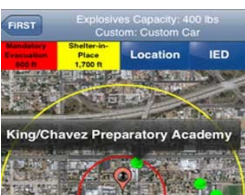
### 2012 Train The Trainer (T3) Course

The MCoE Counter IED Team has just completed one of many Train the Trainer (T3) Certifications facilitated on Fort Benning. The course consisted of Cadre from both Landmine Warfare (commonly referred to as Mines Training Area) and the 194<sup>th</sup> Harmony Church IED lanes. The T3 Course Certification incorporated an array of task (defined on left page insert) into a week long training event 20-24 August 2012. Cadre were presented with classroom training where they were able to partake of the MCoE CIED SME's operational and instructional knowledge. After the lecture portion of each learning objective, the Cadre observed each CIED enabler in action, and/or interact with the IEDES 1 simulator.

Tasks consisted of: IED Components, Operational Environment/COE/OE, Vulnerable Points/Vulnerable Area, Enemy/Friendly TTPs, Plan for Mounted and Dismounted Operations within an IED Environment, Compound Search, Counter Improvised Explosive Device Enablers, Operate within an IED Environment, React to an IED Attack, IED Visual Indicators/ Ground sign Observables, CREW Class (Counter Radio Electronic Warfare), MPLC Class ( Man Portable Line Charge), IEDES 1 Class and Certification, IED Stations Certification, and TADSS Training.

#### Application for Bomb and IED Defense

A tool called [First Responder Support Tools](#) or FiRST uses Smartphone applications users are already familiar with to show standoff information for eight different types of explosive devices. FiRST is available on Windows, Android and iOS (iPhone/iPad) platforms. **NOTE: The DHS IED standoff data is available to all users that register the application using a .gov, .mil, or .us email extension.**



MCoE CIED Team utilize main post classroom at building 2839 to deliver lecture portion of training.

MCoE CIED Team provides hands-on training for the Man Portable Line Charge (MPLC).

Students receiving hands-on instructions for mounted and dismounted CREW systems.

Students receive a block of instruction on the IEDES 1 at MCoE CIED Team classroom located at Leyte Field.

Students perform IEDES 1 practical exercise with pyrotechnics prior to T3 course completion at Leyte Field.

## CIED Training

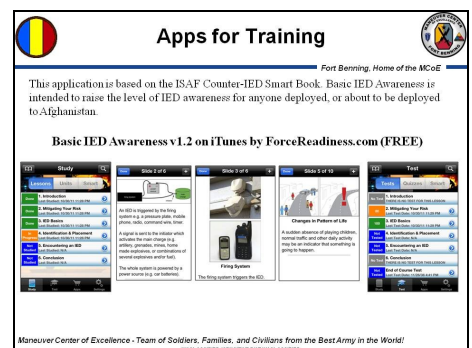
### iTunes Application for Basic IED Awareness v1.2

With the advent of smart phones and the rapid distribution of knowledge across the endless expanses of cyberspace, the enemy has found ways to distribute and share critical bomb making skills and successful TTPs. Coalition forces have gone through great lengths to keep the Soldier "in the loop" and successful information sharing TTPs are just as equally beneficial to the Coalition as well.

Recently we published the article on the latest Interactive Multimedia Instruction available to the Soldiers through their AKO account (See: Volume 3, Issue 4, May 2012 ). Now we bring another application that would be available to any Warfighter with a registered account and access to a smart phone.

The Application can be found on iTunes by ForceReadiness.com titled: Basic IED Awareness v1.2. It gives the individual Soldier the opportunity to stay aware of the BASIC skills and topics that will help save lives.

**Note: This app has not been officially endorsed by the US Armed Services.**





## MCoE Attack the Network (AtN) Line of Effort (LOE)

### Hybrid Threat Networks

Hybrid Threat networks are the diverse and dynamic combination of regular forces, irregular forces, and/or criminal elements unified to achieve mutually benefitting effects. Hybrid threats hide or fight within the population and their actions cannot always be accurately predicted. The key to understanding hybrid threats is that they may not be interested in overthrowing or changing a government. Some threat networks prefer the status quo. Any combination of threat networks may align for mutually beneficial effects, but may break their allegiance at any time if they perceive a loss or reduction of benefits. In an insurgency, criminal organizations have the potential to provide much needed funding for operations and facilitate the purchase of equipment. Criminal organizations are experts at smuggling much needed personnel and materials, providing logistical capabilities irregular forces may not normally have access to. This has been seen in the 1990s when Kosovo Albanians utilized criminal networks to supply their activities against the Serbians. This has most recently been witnessed in Afghanistan where even though the Taliban are morally opposed to heroin production, providing protection to the drug networks provides much needed financial support. This is not a new tactic or concept. In the Vietnam War, the North Vietnamese brought two very distinct forces to the fight; the North Vietnamese Army (NVA) and the Viet Cong or National Liberation Front (NLF). The North Vietnamese blended the capabilities of an insurgency with the capabilities of a conventional army which allowed them to adapt quickly and blend into the local population. We utilized hybrid threat networks during the Revolutionary War by utilizing a conventional army to engage the British and small local militias who understood guerrilla tactics and were not predisposed to standing in open fields to face British muskets. The ability to adapt and transition is the most challenging attribute of hybrid threat networks. We must train to be just as flexible to counter their strengths.



*“We are facing an era of persistent conflict where the character of conflict is more likely to feature hybrid threats—diverse combinations of irregular, terrorist, criminal, and conventional forces employed asymmetrically—to counter our strengths.”*

Peter Chiarelli,  
GEN, U.S. Army  
Vice Chief of Staff

### AtN Training

#### Advanced Situational Awareness Training (ASAT)

The human dimension must be understood to successfully interact with and engage human networks. Situational awareness training is essential for today’s Warfighter. Situational awareness assists with eliminating threat networks, and positively influences neutral and friendly networks. Understanding a person’s language, culture, and religion can play a large role in the success or failure of a mission. Advanced Situational Awareness Training provides units with the tools and skills necessary to train for the human dimension. This training consists of:

- Reading body language.
- Understanding facial expressions.
- Interpreting culturally- or regionally-appropriate gestures.
- Network analysis.
- Understanding power bases and how they are used.
- Active listening skills.
- Negotiation approaches and strategies.
- Discerning the interests of others.



#### Quick Links:

[Attack the Network Homepage](#)

[Strategy Page—Mapping Cultures](#)

[Centre of Excellence Defence Against Terrorism-Homepage](#)

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

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## CIED Team Key Events

- Assist in ground breaking of the new Hand Held Detector lane near Lawson Army Airfield.
- Provided IED Awareness Train the Trainer (T3) course for cadre of the 29th IN Regt.
- Briefed Director of Operations, Aviation and Maneuver Support, United States Army Forces Command, BG Kenneth C. Roberts on CIED related training conducted at the MCoE and possible applications/best practices for application to the NGB.



## Path Forward

- Host a Department of Homeland Security briefing at Bldg 8070 on Leyte Field (Oct 16-17).
- Support the CONUS Replacement Center (CRC).
- Respond to RFIs regarding MCoE CIED training submitted by the Joint Services.
- Remain flexible, adaptive, and proactive in the team's efforts to provide the latest relevant training to the Warfighter.
- Share TRADOC "Best Practices" for training with the Force.

## CIED Team "Behind the Scenes"

Recently the CIED Team had a chance to participate in the 192d IN BDE's "High Ground Rendezvous." This event brings all the Brigade's leadership in and goes over critical training topics to ensure future success and safety. The 192d IN BDE has continuously demonstrated the willingness and ability to incorporate new training enablers to help build a better Warfighter.

During this event, the CIED Team was invited to attend and to talk about the various ways they can assist local units in improving their CIED related training. The primary topic was the incorporation of VBS2 simulations during the Convoy Operations/MRTC phase of training. It was again reinforced that VBS2 simulation use is but one of the many ways the team assists Units in building better training.



MCoE CIED Team	
<p><b>CONOPS Overview</b> The nine member team serves as the MCoE's conduit for operational lesson development directed by the TRADOC Commander. They ensure all MCoE Soldiers receive the most current and relevant CIED training available. The Team serves as an enabler for the Rapid Adoption Initiative with regards to training which is designed to capture critical information and reduce the time needed to disseminate. Units are requested to supply date and type of training request at least two weeks prior to their event.</p>	<p><b>Capability Description</b> The Team provides the following training/consultant enablers for requesting Commanders and Units: 1. MRTC Lane support (duration of event) 2. IED T3 (3-4 days) 3. IED Awareness/Professional Development (2-4 hrs) 4. IED Awareness class w/ dismantled lane (2-4 hrs) 5. PNE/mission Support (DCT, SLC, COS, BOL, C, CCC) 6. VBS2 Virtual Sims (Training scenario driven) 7. PNT support 8. IED-DTSP Application review and validation 9. CREW/MS/CS on select training/mission</p>
<p><b>Requirements and Info</b> -Cost: Training Assistance provided at NO COST to units. -Type: Resident or MTT Part 3 -Audience: Company and below -AOL: 1-200 -Range/Topic: None -Length: 1 hour to 4 days- Depending if selected training -Location: Ft Benning, GA -Clearance: UNCLAS//SI-CLASS -Other: Team applies first requested first supported due to limited slots versus the volume of the MCoE</p>	<p><b>Points of Contact</b> Operations MCoE DOTD CIED Team 706-545-6577/5298  Leyte Field CIED Simulations/CREW Facility 706-544-6246</p>

## CIED Team Lead Comments

When it comes down to it, this fight against IEDs has to have the full attention of everyone involved in a convoy or dismounted patrol. It may be said that our battle drills have been developed and tested on the battlefield and proven true in their worth, but the enemy knows this well and has readily adapted to exploit this. The days of assaulting through a near ambush or rushing to a casualty's aid, have now been forever changed with the employment of IEDs. Leaders and Soldiers must remember that the enemy conducts his IPB of the battlefield before he sets up his or her ambushes. He's keenly aware of how you should react and where you should go upon contact. Trainers should take every chance to incorporate TTPs like this in their sessions to get Soldiers and Leaders thinking about what they should or would do next.

The MCoE CIED Team is on-call to support any unit requesting CIED training, Professional Development (PD), or Subject Matter Expert (SME) assistance during field training. 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 706-545-6516, [ge-rald.e.niggemann.civ@mail.mil](mailto:ge-rald.e.niggemann.civ@mail.mil).



Tom Dale

### 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](#)





# MCoE IED Defeat

## Maneuver Center of Excellence KeyBridge Technologies CIED Team POCs

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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://jknife.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>
- Capabilities Integration Team (CIT) Rep  
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SIPR: [ben.clapsaddle@us.army.smil.mil](mailto:ben.clapsaddle@us.army.smil.mil)
- Directorate for Counter IED:  
<http://www.wood.army.mil/dcied>
- Army CIED Professional Forum  
<https://forums.army.mil/SECURE/CommunityBrowser.aspx?id=131710&lang=en-US>

## Around the World

(IED topics from around the world)



## Training Support provided by the MCoE CIED Team

The MCoE CIED Team is proud to announce that it has finished the draft concept of a new “Smart Book” geared towards the entry level Warfighter. While there are many great products out there that address these topics, many approach it from the more experienced Warfighter’s skill and knowledge set.

With this new product, due to be shipped in October, the new Soldier will receive a tool that he can carry with him and provide him a readily available reference to build their skills upon.

