



Counter-Improvised Explosive Device Integration Cells

US Army Forces Command

As the largest contributor to battlefield casualties, improvised explosive devices (IED) are a significant threat to US and coalition forces throughout the world. The enemy's implementation of adaptive and clever means to design, develop, place, and trigger IEDs demands an agile and preemptive approach to defeat the IED network. To help soldiers learn to combat the use and effects of IEDs, US Army Forces Command (FORSCOM) turned to Booz Allen Hamilton and its Counter-IED Integration Cells (CI2C) to identify training deficiencies and design a broad-based training strategy employing live, virtual, constructive, and gaming (LVCG) techniques.

Cost-Effective Alternative to Live Training

Live training exercises have become increasingly difficult to conduct because of the high costs of fuel and ammunition, environmental constraints at training ranges, and the need to minimize the wear and tear on weapons platforms and equipment, which have been stressed by repeated deployments. LVCG techniques—such as those used in the FORSCOM CI2C training program—provide cost-effective and efficient methods for readying today's warfighters.

CI2Cs have helped FORSCOM plan, synchronize, coordinate, and integrate all LVCG counter-IED (CIED) assets into the unit commander's training plan

throughout the Army Force Generation cycle. CI2Cs are small teams aligned with FORSCOM's Mission Support Elements at installations hosting Corps and Division Headquarters and at First Army Mobilization Training Centers. Cell members are the senior commanders' resource for CIED pre-deployment preparation. They tailor training based on the deploying commanders' mission requirements and training objectives.

CI2Cs integrate CIED enablers, such as Company Intelligence Support Teams, Biometrics, Electronic Warfare, Robotics, and Tactical Site Exploitation, and serve as the entry point for all CIED initiatives at the installation. CI2Cs provide an enduring capability to synchronize CIED training using virtual and gaming techniques and give commanders an immediate focus on asymmetric and IED threats.

What Booz Allen Does

Booz Allen's CI2C professionals integrates all available LVCG assets into individual deploying unit training. Training strategies and course content explain the approach for training commanders. Cell members create realistic training aids, devices, simulators, and simulations, including reference materials, and provides pre-deployment training. Our subject matter experts (SME) have supported deploying units across FORSCOM and other commands with wargame and

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delivering results that endure

exercise analysis. We have integrated intelligence threat modeling and simulation for LVCG exercises into pre-deployment training and multinational exercises.

Booz Allen's CIED training SMEs evaluate commanders' training plans and identify virtual and gaming resources to meet readiness requirements. In addition to the analysis and integration function, we provide hands-on platform instruction. Through this instruction, we are able to conduct a much deeper evaluation of available simulations that can be integrated into FORSCOM's training plans to produce cost savings and enhance the client's training environment. Training platforms we have used at FORSCOM include the following:

- **Virtual Battlespace 2.** This gaming engine allows trainers to build simulated terrain that matches the terrain of either home stations or deployed areas. Soldiers rehearse in a near-real environment.
- **Route Clearance Training Suite.** This in-depth virtual training tool helps troops learn the rigors of clearing IEDs.
- **Mine Resistant Armor Protected Common Driver Trainer.** This platform delivers virtual driver training of vehicles designed to survive IEDs.
- **Recognition of Combatant Vehicles.** This government-owned training software teaches vehicle identification in standard daylight conditions and through thermal sight.
- **Recognition of IEDs.** This training software teaches basic IED recognition.

Helping FORSCOM Be Ready for What's Next

The use of virtual simulations directly results in a more highly trained soldier, maximum utilization of limited live training time, and reduced casualties to

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people and equipment in deployed environments. Booz Allen helps commanders leverage available resources to get the most out of training plans. We not only understand training and training requirements but also—because the cells comprise seasoned veterans—have a deep understanding of military requirements and operations.

Ready to Help You

Booz Allen's work for FORSCOM is just one example of how our strategy and technology consultants can help defense organizations train units to be prepared for battlefield operations, such as countering IEDs. We combine strong multidisciplinary skills in LVCG training techniques with a deep knowledge of our defense clients' cultures and requirements to help them address their many complex warfighter training needs. To learn more about the knowledge base behind this project's success and how it can help your team be ready for what's next, visit www.boozallen.com/defense.

About Booz Allen

Booz Allen Hamilton is a leading provider of management and technology consulting services to the US government in defense, intelligence, and civil markets, and to major corporations, institutions, and not-for-profit organizations. Booz Allen is headquartered in McLean, Virginia, employs more than 25,000 people, and had revenue of \$5.59 billion for the 12 months ended March 31, 2011. (NYSE: BAH)

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