



# CTTSO / TSWG Training Technology Development Initiatives

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Combating Terrorism Technical Support Office



# CTTTSO Mission

**Vision:** Identify requirements to combat terrorism and provide solutions to warfighters, first responders, and other front-line users as rapidly as possible.

**Mission:** Identify and prioritize the needs of the interagency community charged with combating terrorism. Deliver capabilities to those on the front lines through rapid research, development, test, evaluation, and operational support. Incorporate available expertise and experience from government, commercial, private, and academic sources throughout the United States and the world.

## Objectives:

- Provide interagency forum to coordinate R&D requirements for combating terrorism
- Sponsor interagency advanced technology development
- Promulgate technology & information transfer
- Influence policy development
- Guide basic and applied research





# CTTSO Organization



**Special Operations/Low-Intensity  
Conflict & Interdependent  
Capabilities**



**Combating Terrorism  
Technical Support  
Office**



**Department  
of State**



**Technical  
Support  
Working Group**



**Explosive Ordnance  
Disposal/  
Low-Intensity  
Conflict**



**Irregular  
Warfare  
Support**



**INTERNATIONAL  
PROGRAMS**



# TSWG Mission

**Mission:** Conduct the U.S. national interagency research and development program for Combating Terrorism through rapid research, development, and prototyping.

## **Objectives:**

- Provide interagency forum to coordinate R&D requirements for combating terrorism
- Sponsor R&D not addressed by individual agencies
- Promote information transfer



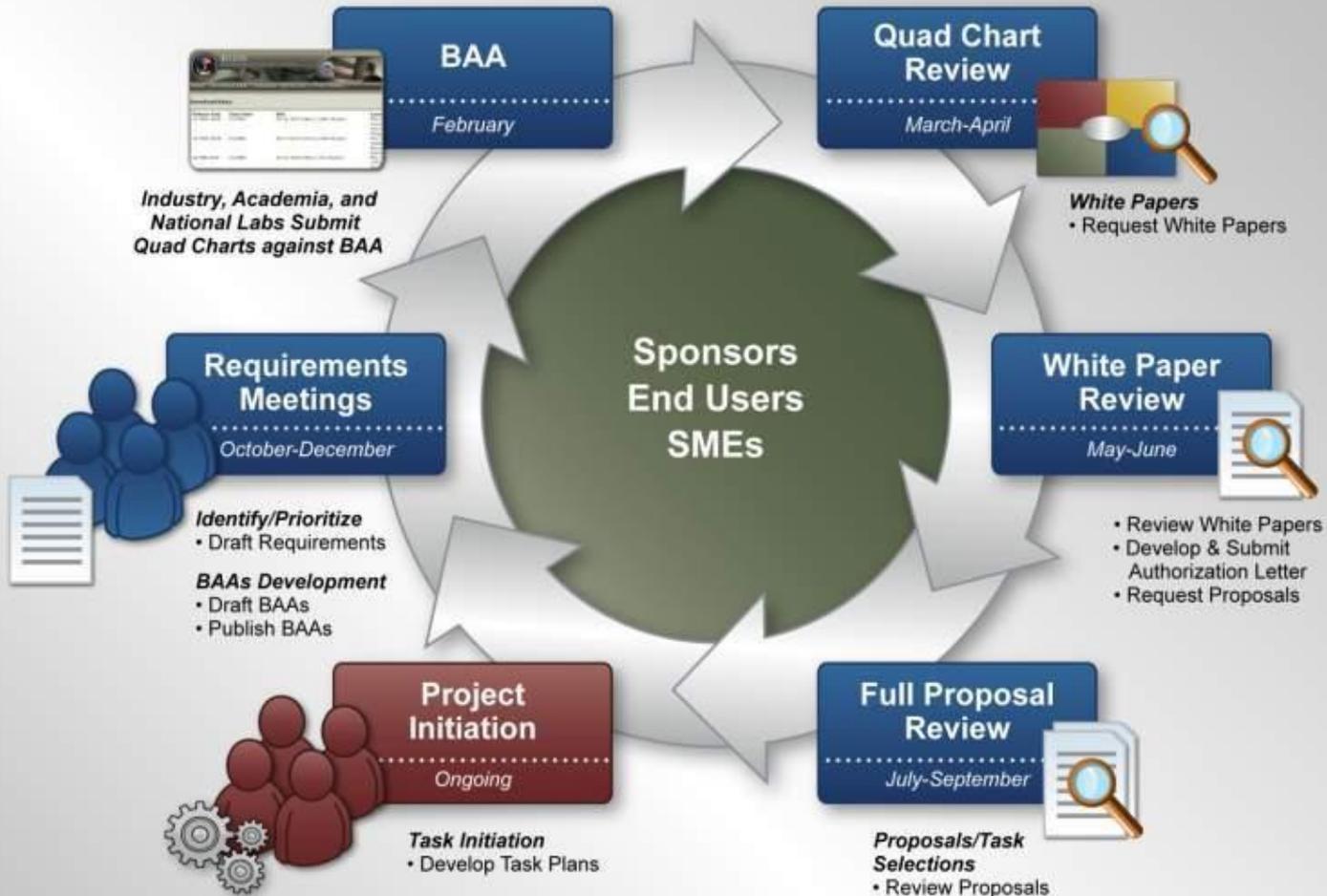


# TSWG Organization





# Business Cycle





# TTD Subgroup

**Mission:** Satisfy interagency requirements for the development and delivery of combating terrorism related education, training, and mission performance support products and technologies

## **Program Focus Areas:**

- Advanced Training and Education
- Delivery Architectures
- Models, Simulations, and Games
- Training/Information Aids and Devices





# TD-SG-2023(I) Special Operations Advanced Sniper Simulation



**Description:** A containerized, up to .50 cal virtual live fire simulation which can duplicate the conditions of a long, known distance (KD) range for complex and urban environments.

**Deliverable:** A 200' modular container accommodating live, non-armor piercing ball ammunition rounds (up to .50 cal) with 100% ballistic containment. Scenarios and firing tables projected on inner surface of the container.

**End Users:** U.S. Army

**Transition:** Delivered and installed for implementation and sustainment; vendor commercialization; used to build lanes for USMC and Navy.





# TD-SG-2023(I)

## 7.62 Minigun Simulator



**Description:** A simulator for the 7.62 Minigun weapon system that accurately mimics form and functionality of the actual weapon system. Integration into a mobile simulator environment with realistic scenarios.

**Deliverable:** One integrated Minigun simulator and mobile simulator environment with 15 virtual scenarios. One Minigun simulator integrated with DOE's Warrior Skills Trainer (WST).

**End Users:** U.S. Army, DoE

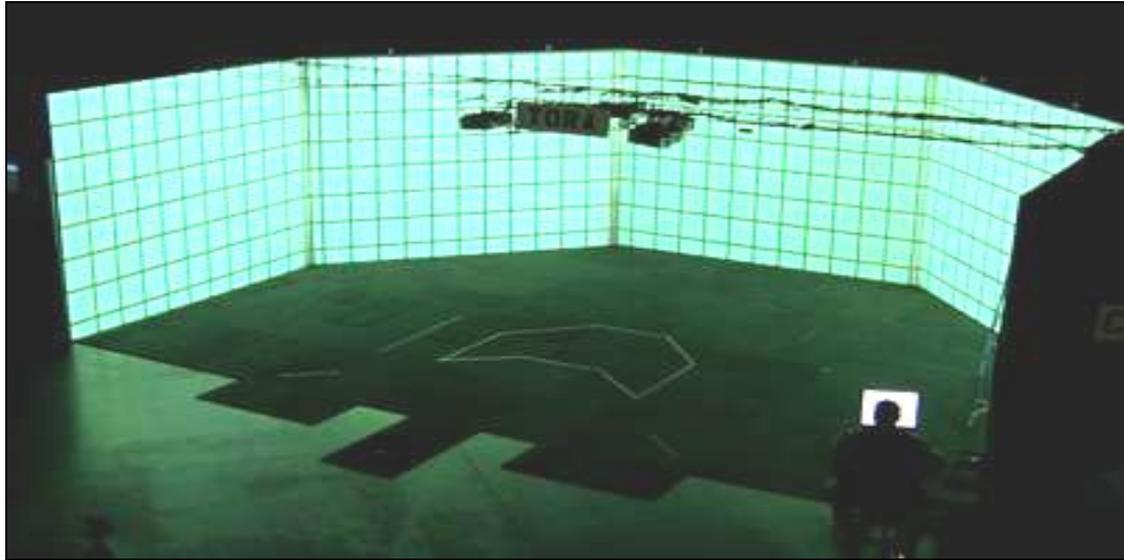
**Transition:** One system delivered to Army; one system delivered to LANL; available through Cubic Defense Application GSA Contract GS-02F-0024T.





# TD-SG-3282

## Elevating Ocular Tactical Reaction System



**Description:** A laser-based performance simulation covering a 220° visual that allows trainees to visually acquire 1,500+ targets and fire 500+ virtual rounds in a single training session.

**Deliverable:** A 5-screen, laser-based performance simulation (TORA); computer-based eye tracking and target recognition system (K-SET). Two-week pilot courses.

**End Users:** U.S. Army

**Transition:** Base system to be delivered and installed for implementation and sustainment.





# TD-SG-3146

## Tactical Driving Simulation



**Description:** PC-based, software simulation tool that poses realistic driving scenarios within the context of protective details.

**Deliverable:** 50 computer systems, software licenses, driving controllers, and user manuals.

**End Users:** DoD, DHS, DoS

**Transition:** Full system including all software and hardware to be delivered at end user sites.





# TD-SG-3339 Real-time IED Effects Training Capability



**Description:** Enhanced improvised explosive device (IEDs) effects training capability for use in a live, virtual, and constructive (LVC) training environment.

**Deliverable:** Integrated system including all hardware, software, and supporting materials.

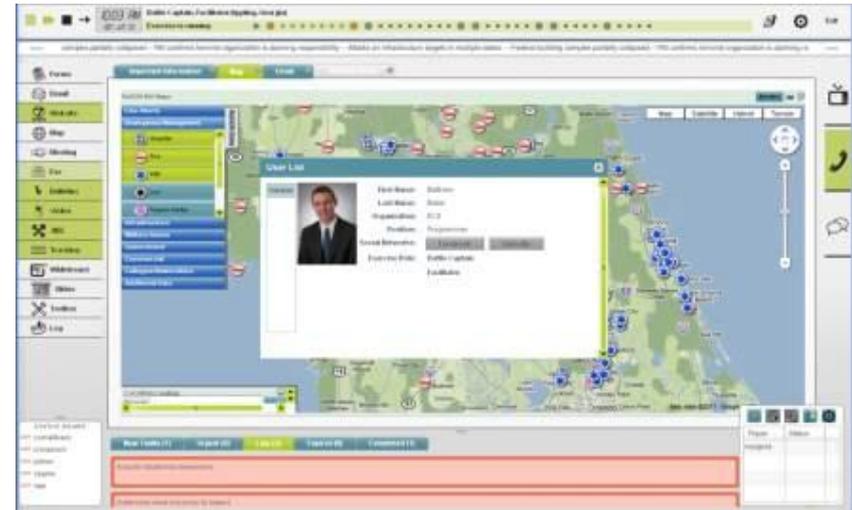
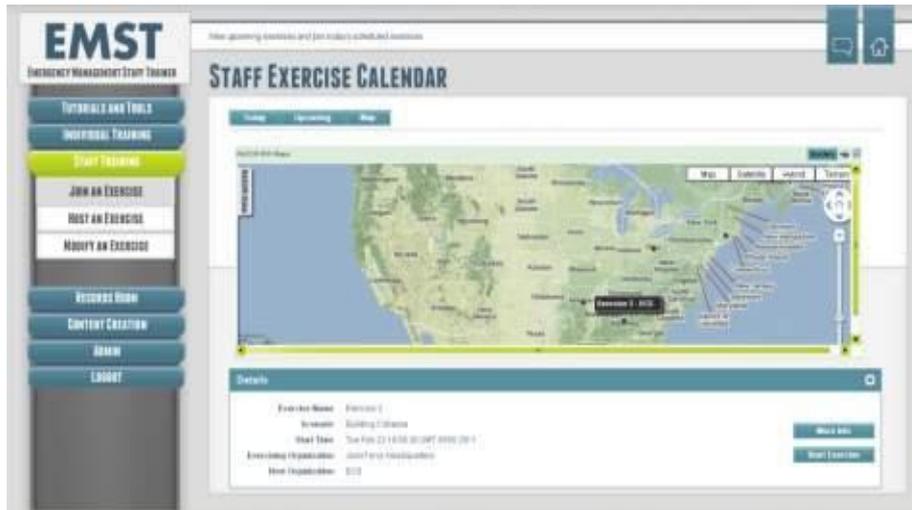
**End Users:** DoD

**Transition:** Complete integrated system delivered to end user training ranges.





# TD-SG-3268 Emergency Management Staff Trainer



**Description:** Low cost regional training capability for military and civilian emergency responders including regional and national scenarios for chemical/nuclear/biological incident prevention and response training.

**Deliverable:** Fully integrated EMST including map-based local-to-national dashboard capability, an exercise registration interface, and three regional/national CBR scenarios.

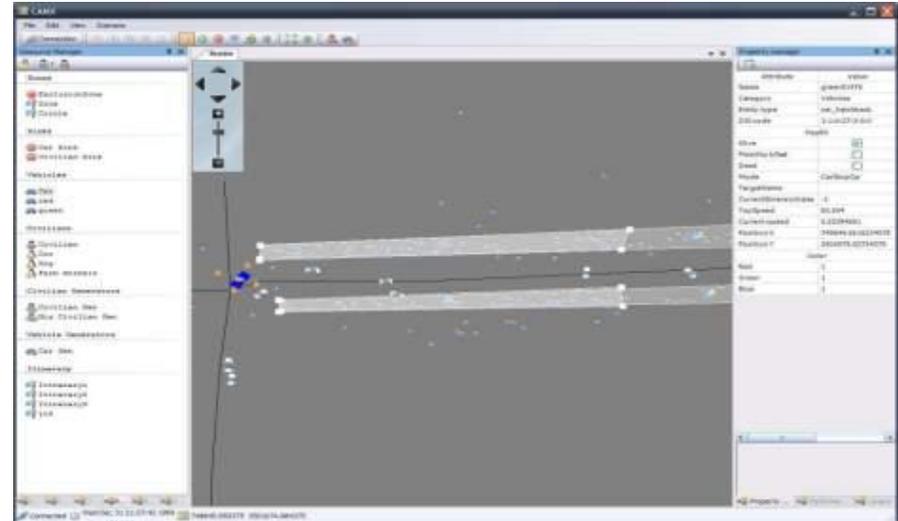
**End Users:** NGB

**Transition:** Fully operational system delivered to end user organization.





# TD-SG-3467(I) CAMX Enhancements (Canada Task Plan)



**Description:** Enhance the Civilian Activity Modelling for eXercises and eXperimentation (CAMX) tool so that individual and crowd symptoms are exhibited according to a health effects model relative to chemical, biological and radiological exposure.

**Deliverable:** Enhanced CAMX system with licenses.

**End Users:** DHS

**Transition:** Enhanced system will be used by DHS for site security planning.





# TD-AR-3338 SCORM Best Practices Guidelines



**Description:** Analysis, revision, and development of Best Practice Guidelines for SCORM 2004 principles.

**Deliverable:** Ten electronic copies and three hard copies of SCORM Best Practices Guidelines.

**End Users:** ADL Co-Lab. Supports government and contractor ISDs and programmers in various training centers across the DoD.

**Transition:** Guidelines to be delivered to ADL.





# TD-AR-3003 Mobile Learning



**Description:** Operational analysis of mLearning training and technologies to determine the needs, requirements, and levels of receptivity and understanding for mLearning solutions in the military.

**Deliverable:** Needs Analysis Report detailing the military's current and desired state of mLearning, case studies from government and industry, and security issues involving mLearning. Implementation Plan created to bridge the gap.

**End Users:** USMC, U.S. Army, DoE, DoS, Navy, ADL

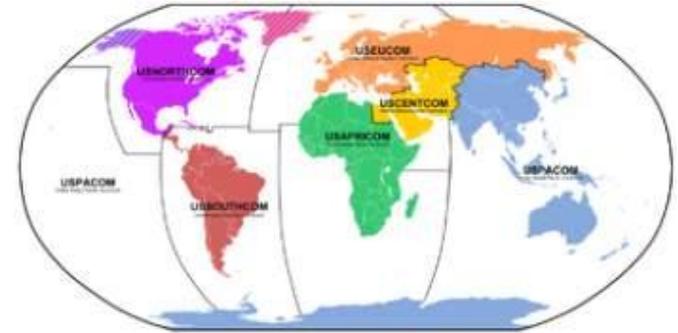
**Transition:** USMC and Army received the Needs Analysis and Implementation Plan. Using the Implementation Plan as a basis for additional mLearning efforts..





# TD-AR-3003

## Assessment of Web 2.0 Trends for Military



**Description:** Operational analysis of Web 2.0 technologies (social media) for military use. Includes extensive interviews conducted with over 75 military personnel and personnel from DoD offices, as well as from research on the private sector's use of Web 2.0 technologies for information sharing and collaboration.

**Deliverable:** Needs Analysis Report detailing the military's current and desired state of the use of social media. It includes successful use within the military and industry case studies. Also addressed are infrastructure and security issues involving social media.

**End Users:** USMC, U.S. Army, SOCOM, ADL, DoS, DoE, Veteran Affairs, and DISAM

**Transition:** End users received the report and are using it to assist with information sharing capabilities and informal learning efforts.





# TD-TE-3143

# Incidental Fire Support Training for Observers



**Description:** Enhance the U.S. Marine Corps' (USMC) ability to conduct combat operations by enabling small unit leaders to access fire support in the absence of a JTAC and thus multiplying the combat effectiveness while reducing non-combatant casualties.

**Deliverable:** 290 TSPs, 650 Guidebooks, 125 Commander briefings on CD

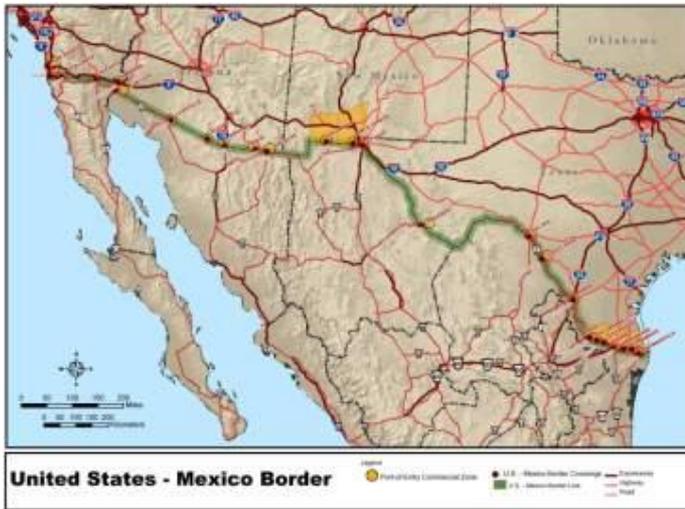
**End Users:** USMC

**Transition:** Deliverables provided to USMC and designated schoolhouses. Print files were transitioned to the printing office at the Pentagon.





# TD-TE-3341 Counter Tunnel Investigation Training



**Description:** Computer-based training (CBT) to include self-paced learning scenarios, assessments, reinforcement activities; Practical exercises to promote cooperation, critical thinking, and decision making skills, and provide realistic application of learning principles; Field guides for use by trainees in the field and for veteran users as refresher training

**Deliverable:** CBT on DHS learning management system and 100 CDs, 25 printed instructor guides, and 200 printed field guides.

**End Users:** DHS

**Transition:** DHS via a Learning Management System. The vendor will support the transition, but DHS will sustain the CBT training.





# TD-AR-3074

## Intelligent Software Agents



**Description:** Innovative intelligent software agent and supporting educational materials for teaching intelligence analysts the critical thinking skills and reasoning processes involved in solving analytic problems and generating analytic estimates.

**Deliverable:** Intelligent software agent, knowledge bases for case study analysis, and a textbook. The intelligent software agent will be web-based and will provide instructors with customizable training for their students.

**End Users:** U.S. Army

**Transition:** System for use within Army intelligence analyst training courses.





# TD-TA-3343 Shot Indicating Resetting Trigger (SIRT)



**Description:** Laser-based, dry-fire training tool to enhance pistol and rifle skill development through the resetting trigger, rather than the need to rack the slide or bolt between shots.

**Deliverable:** 10 Beretta M-9 Brigadiers, 10 M-4s, and 10 Glock 19 SIRTs

**End Users:** U.S. Army

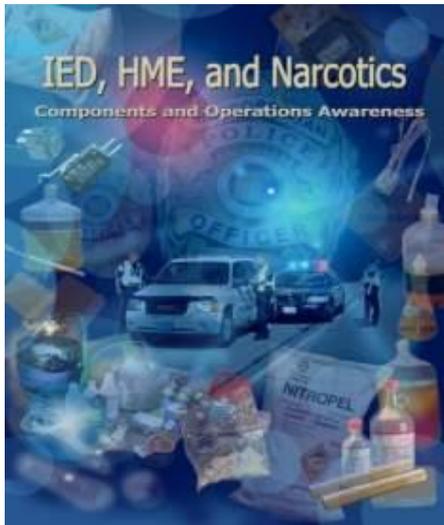
**Transition:** Prototypes will be delivered to end users directly. Transition planning for commercial product and GSA schedule is in the beginning stages.





# TD-TE-2486

## Advanced IED Awareness Training



**Description:** Training for law enforcement personnel to differentiate between and properly respond to IED, Homemade Explosive (HME), and narcotics-related incidents.

**Deliverable:** 500 course DVDs. Training consists of 9 modules averaging 30 minutes in length plus a final exam.

**End Users:** National Tactical Officers Association (NTOA)

**Transition:** 100 course DVDs sent to NTOA. Course hosted on DHS TRIPwire website. DVDs also sent to:

- DoD
- DoS
- State Police Departments
- Royal Canadian Mounted Police (RCMP)





# TD-TE-3044 Post-Blast Assessment Training



**Description:** Training course and Incident Response Guide for Military EOD Technicians focusing on proper evidence collection and preservation techniques at post-blast scenes in order to prevent and deter future incidents.

**Deliverable:** 100 Course DVDs. Training consists of 5 modules, 5 module quizzes, and a final exam. Also delivered 1057 folding-card Incident Response Guides.

**End Users:** USAF, Navy, FBI

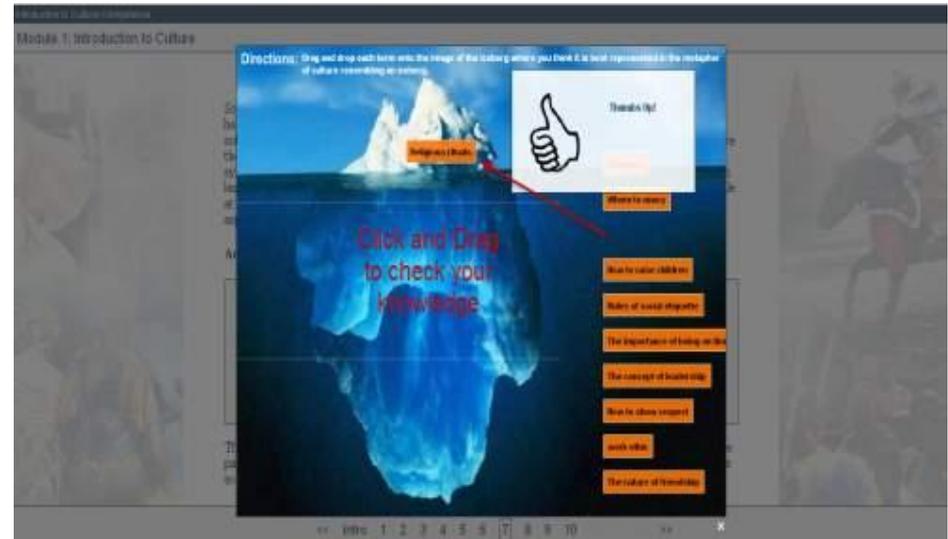
**Transition:** USAF offering course and supplying IRGs to personnel pre-deployment. Course offered by FBI. DVDs and IRG also available through GPO (50 DVDs and 100 IRGs). Course hosted on JKO.





# TD-TE-3147

## Culture and Irregular Conflict Courses



**Description:** Distance learning course focused on the intersection of cross-cultural conflicts, violent confrontations, and the use of scientific concepts for understanding the motivations of combatants and the nature of warfare.

**Deliverable:** Online course accessible via AKO and delivered on DVD. Course consists of 15-modules with students completing one module per week. Unit exams after every third module.

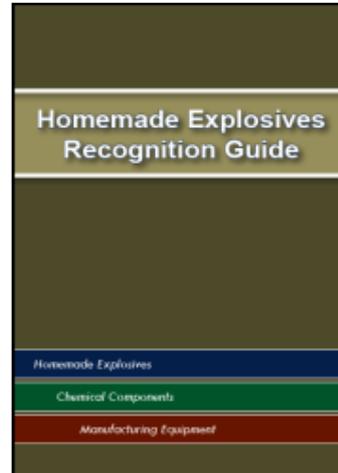
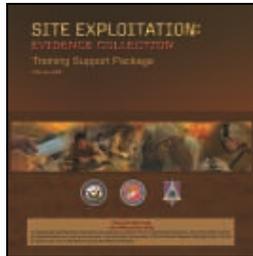
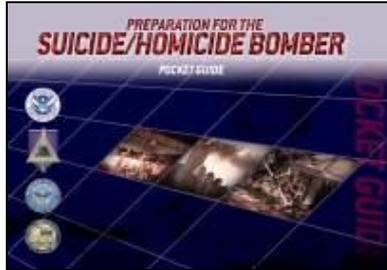
**End Users:** U.S. Army

**Transition:** Transition to Army for integration into their culture and language program.





# TD-TA-3052 TTD IDIQ



**Description:** Facilitate rapid R&D of training and training technologies to increase mission readiness and enhance the operational capabilities of both military and civilian communities involved in combating terrorism.

**Deliverable:** Anticipate first task order being the development of Tactical Site Exploitation training for Afghanistan. Also planning Wounded Warrior Training.

**End Users:** TBD

**Transition:** Various depending on individual TO.





# New Requirements

- RQ-11B SUAS Training Package
- Sensitive Site Exploitation Training
- Joint Undercover Operations Training
- Simulated Environment for Embassy Security Training
- Immersive Training Environment for WMD CBRNE Support Teams
- Ballistics and Shooting Skill Effects Training Video
- HALO/HAHO Parachute Simulator
- UW Comprehensive Education Initiative





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