



**REALISTIC,
MEASURABLE
TRAINING**
FOR AN
EVOLVING
THREAT



"Counter-IED operators deployed to Afghanistan are benefitting from cutting-edge technology developed by Saab. The new training has been introduced as an urgent operational requirement and will help troops detect the deadly devices that are planted by the enemy, and are killing and injuring Afghan civilians and ISAF troops alike."

UK MoD spokesperson

"The most attentive group of soldiers I have ever seen was in the After Action Review tent when they were being presented with the objective data gained from (Saab's) C-IED Collective Trainer serial."

UK MoD spokesperson

"The Saab CCT system removes the subjectivity of human judgement from the important task of high risk assurance, replacing it with fact and science."

UK MoD spokesperson

"The CCT brings a capability that allows us to make an assessment and validation of our own C-IED search training TTPs, which in turn reinforces our own instructors' subjective assessments. It has to be said that due to the experience and excellent training they deliver, the IED strikes against us have remained relatively low. The team have played a huge part in that – the men deploy with the skills and confidence to do the job."

UK MoD spokesperson

TECHNICAL SPECIFICATIONS

PERSONAL KIT	EXCON CONSOLE CHARACTERISTICS	UPGRADES AND ENHANCEMENTS
<ul style="list-style-type: none"> Weight: 2.4 kg Battery life: approx 48 hrs Eye-safe laser system Any personal weapon system simulated Any dismounted detector instrumented 	<ul style="list-style-type: none"> Ruggedised laptop or desktop Supports between 10-600 players Range: 1-20 km Operates in any environment Indirect Fire (IDF) simulation capability Integration with virtual components Video management system CBRN capability 	<ul style="list-style-type: none"> Vehicle systems Grenades Booby traps/IED simulation Medical treatment simulation Integration of buildings into scenarios Instrumentation of tunnels, trains, ships and aeroplanes Electronic Countermeasures (ECM) simulation
STANDARD COMPONENTS		
<ul style="list-style-type: none"> Personal Detection Devices (PDDs) EXCON console Training adviser 		

Specifications subject to change without notice.

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www.youtube.com/watch?v=5z9f_BP89rA



CCT – KEEPING YOU ONE STEP AHEAD

**REALISTIC, DEPLOYABLE, INSTRUMENTED
COUNTER-IED TRAINING AND VALIDATION**





TRAINING AND VALIDATION

OPTIMISING ASSURANCE AND CONFIDENCE

Saab's Counter-Improvised Explosive Device (C-IED) Collective Trainer (CCT) is a fully instrumented tactical engagement simulation system developed to meet the training needs of individuals and teams engaged in dismounted route and area searches.

By optimising individual equipment training within a framework of collective tactics, techniques and procedures training, the CCT offers the most effective way of countering the evolving and deadly IED threat.

The CCT provides an expeditionary, scalable, agile and cost-effective training and validation capability. It uses advanced technology alongside dedicated and experienced training advisers to measure and improve the operational effectiveness and confidence of individual C-IED and electronic countermeasures operators and their commanders.

DEPLOYABLE TRAINING CAPABILITY

The Collective Trainer is modular and can be configured to meet specific training requirements. These configurations can range from fully man-portable systems to a combination of larger mobile communications set-ups that ensure optimal instrumentation of the organisation under training.



INSTRUMENTED TRAINING AND VALIDATION

The system provides objective data which is relevant to the particular scenario or training activity. This enables the training adviser, military trainer or commander to make judgements on performance. This feedback is played back to the participant via thorough and interactive After Action Reviews (AARs) to optimise the learning experience.

DEDICATED SUPPORT: SUBJECT MATTER EXPERT

Saab's dedicated and operationally current training advisers are on hand 24 hrs a day and can be deployed anywhere in the world. Further details of this capability are available on request.

Training delivery and support



KEY COMPONENTS

INSTRUMENTED TRAINING

Instrumented training uses specialised technology to enable the capture of individual and collective performance data. It provides objective information to trainers and commanders which allows them to better understand the performance of trainees, and adjust their training regimes to optimise the use of equipment and Tactics, Techniques and Procedures (TTPs).

EXERCISE CONTROL (EXCON)

The EXCON tool is a rugged, portable system used to capture, collate, analyse and play back key learning events, allowing the controller to generate objective training evidence. The system offers a unique method of time stamping and capturing events which allows actions to be easily sequenced for playback. Filters can be pre-set on the system to provide immediate presentation of important data. Video and audio coverage can also be assimilated to provide a multi-sensory AAR experience.

WEAPONS EFFECT SIMULATOR AND PLAYER TRACKING

Saab's eye-safe, lightweight, laser Small Arms Transmitter (SAT) accurately simulates the characteristics of the weapon to which it is paired, measuring the lethality of its use and the vulnerability of its user to enemy fire. In addition IEDs and area weapon blast effects are replicated using the IED Advanced. Utilising high-end GPS technology, the player-worn Personal Detection Device (PDD) vest accurately records all player actions and tracks their location to within 15 cm.

MULTI-DETECTOR SENSOR (MDS)

The MDS gathers performance data on a range of handheld detectors. It transmits real-time data from the PDD to EXCON.

ELECTRONIC COUNTERMEASURES (ECM) SIMULATION

When used in conjunction with the IED Advanced, the ECM simulator accurately depicts the effectiveness of ECM deployment.

SPECIALIST TRAINING ADVICE/TRAINING DELIVERY

At the heart of the CCT capability is a dedicated training adviser. Having credible and recent operational experience, the training adviser can assist in exercise set-up and design. During training or validation events, the training adviser will optimise feedback from the instrumented system. They also assist the organisation under training with the transfer of collective knowledge and understanding. Counter insurgency – and in particular the battle against IEDs – requires an understanding of human behaviour, and experience and knowledge of the threat is a key component of our training concept.

During and after the exercise or training event, the training advisers will select and present requested information for hot debriefs or AARs. Throughout the training continuum, the training advisers can offer deeper analysis of data to identify long term organisational trends.

Collective Trainer components



Multi-Detector Sensor (MDS) Small Arms Transmitter (SAT) After Action Review (AAR) EXCON interface

EXCON screenshots

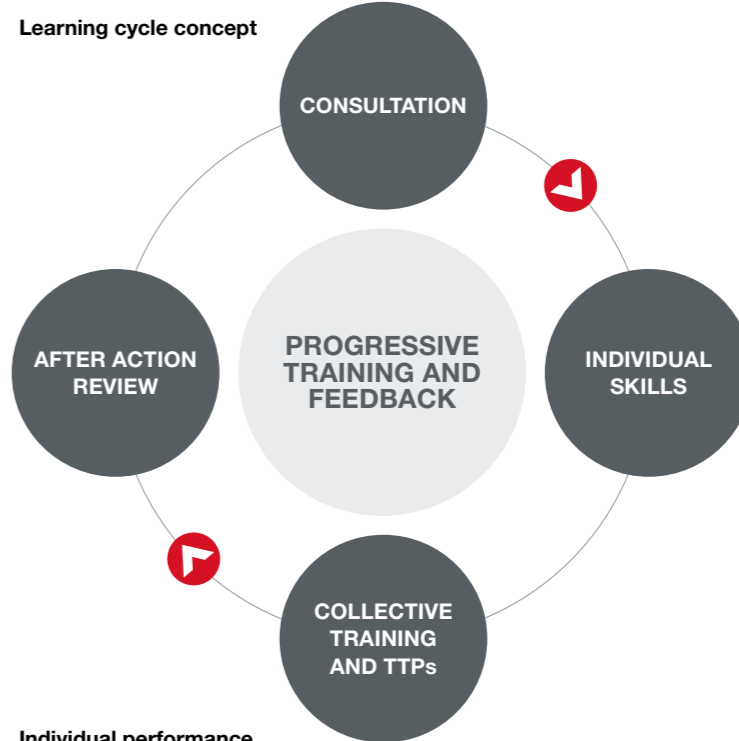


Distances Jammer (bird's eye) Jammer (oblique) Search overview

THE COMPLETE CYCLE

From preparation, through exercises and debrief, to reviews and trend analysis, the CCT system utilises and supports Saab's learning cycle concept.

Learning cycle concept



HOT DEBRIEF

At any stage during an exercise, the EXCON console can be paused and data can be reviewed immediately. This allows the exercise controller to evaluate essential information and optimise training while it is happening.

AFTER ACTION REVIEW

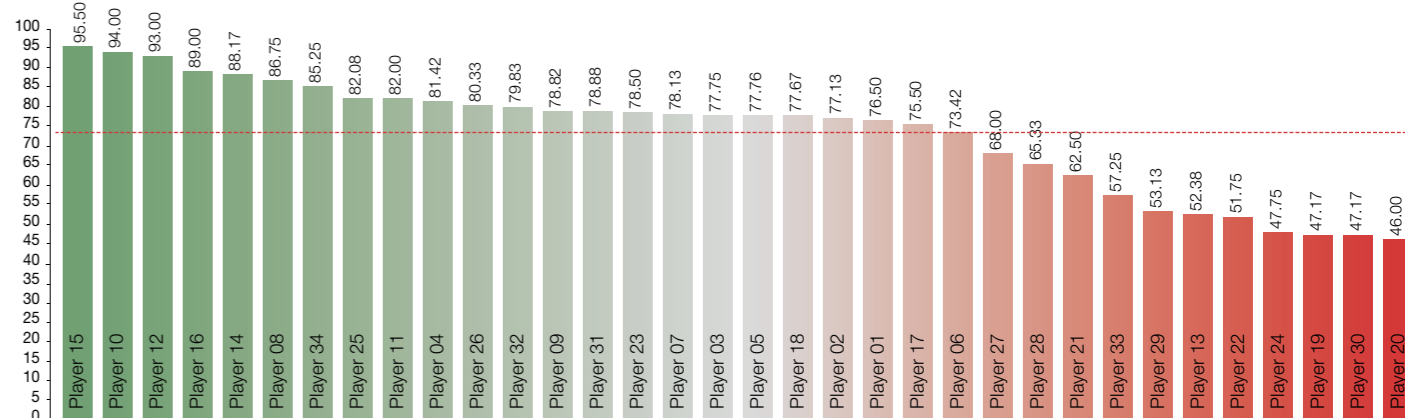
At the end of an exercise the training adviser extracts, reviews and presents the requested exercise data in the form of a constructive two-way dialogue. This will include full playback of key events, supported

by screenshots, firing data, search performance and other relevant reports and information. Full AARs, tailored to the customer's needs, can be provided within 30 minutes of end of exercises.

EXPORT OF DATA

On completion of the exercise the training adviser will collate all the exercise data and AAR material and deliver it to the training organisation. This can later be used to analyse trends, draw more detailed conclusions, and to reflect on the training experience.

Individual performance



Collective performance

