“Counter-IED operators deployed to Afghanistan are benefiting 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 avoid 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**

- **Weight**: 2.4 kg

- **Battery life**: approx 48 hrs

- **Eye-safe laser system**

- **Any personal weapon system simulated**

- **Any dismounted detector instrumented**

**STANDARD COMPONENTS**

- **Personal Detection Devices (PDDs)**

- **EXCoN console**

- **Training adviser**

**EXCoN CONSOLE CHARACTERISTICS**

- **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**

**UPGRADES AND ENHANCEMENTS**

- **Vehicle systems**

- **Grenades**

- **Robot hand board simulation**

- **Medical threat simulation**

- **Integration of buildings into scenarios**

- **Indistinguishability of issues, looks, sizes and appearances**

- **Electro-optic ( EO) simulation**

**www.saabgroup.com**
Seab’s Counter-Impersed 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.

**TRAINING AND VALIDATION**

**OPTIMISING ASSURANCE AND CONFIDENCE**

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 expeditious, scalable, agile and cost-effective training and validation capability. It uses advanced technology alongside dedicated and experienced training advisors to measure and improve the operational effectiveness and confidence of individual CIED and electronic countermeasures operators and their commanders.

**KEY COMPONENTS**

**INSTRUMENTED TRAINING AND VALUATION**

The system provides objective data which is specific to the particular scenario or training activity. This enables the training advisor to have a meaningful conversation about performance. Feedback is played back to the participant in real-time and translated into an After Action Review (AAR) to optimise the learning experience.

**DEDICATED SUPPORT SUBJECT MATTER EXPERT**

Seab’s dedicated and operationally current training advisors are on-board 24/7 and can be deployed anywhere in the world in 48 hours. Further details of this capability are available on request.

**INSTRUMENTED TRAINING**

Seab’s Counter-Impersed Explosive Device (C-IED) Collective Trainer (CCT) is a fully instrumented tactical Training and Valuation system developed to meet the training needs of individuals and teams engaged in dismounted route and area searches.

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

**TRAINING DELIVERY AND SUPPORT**

The CCT delivers training and validation to optimise the learning experience. Feedback is played back to the participant in real-time and translated into an After Action Review (AAR) to optimise the learning experience.

**EXERCISE CONTROL (EXCON)**

The EXCON tool is a rugged, portable system used to capture, collate, analyse and play back key training events, allowing the controller to generate objective training evaluations. The system offers a unique method of time-mapping and capturing events which allows accuracy to be readily maintained.

**Multi-Detector Sensor (MDS)**

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

**Electronic Countermeasures (ECM) Simulators**

Where relevant and in line with the IED Assembler, the ECM simulator accurately depicts the effectiveness of ECM deployment.

**WEAPONS EFFECT SIMULATOR AND PLAYER TRACKING**

The ATL LEOs’ sighted, haptic, laser Small Arms Transmitter (SAT) accurately simulates the characteristics of the weapon to which it is paired, assessing the lethality of its aim and the vulnerability of its user to enemy fire. ADDS is an improved Visual�aided GPS technology, allowing the player to know where their location is and where their teammates are.

**SPECIALIST TRAINING**

**ADVISORY TRAINING DELIVERY**

At the heart of the CCT capability is a dedicated training advisor. Having credible and recent operational experience, the training advisor can ensure exercises are set up and designed. Training is validated, common procedures, the training advisor will optimise the training experience.

They also assist the organisation and direct the trainer to the collective knowledge and understanding. Counter-terrorism – and in particular the battles against IEDs – requires an understanding of human behaviour, experience and knowledge of the threat in a key component of our training concept.

During and after the exercise or training event, the training advisor will detect and correct any errors or procedure in action as quickly as possible. The training adviser extracts, presents requested information for hot debriefs or AARs. Throughout the training experience, the training adviser will optimise the learning cycle concept.

**COLLECTIVE PERFORMANCE**

The COMPLETE Cycle

Form preparation, through exercises and debrief, to reviews and trend analysis, the CCT system utilises and supports Seab’s learning cycle concept.

**DEPLOYMENT OF DATA**

On completion of the exercise, the training advisor will utilise all the exercise data and AARs material and deliver it to the training control room. This data can be used to analyse trends, direct out data of training and feedback across the organisation.

**EXPERIMENTAL REVIEW**

The COMpleTEness (COMPLETE) learning cycle concept

- **COMPOSITION**
  - **COMING TOGETHER**
  - **INTENTION**
  - **PERFORMANCE**
  - **FEEDBACK**
  - **ACTION**
  - **RESEARCH**
  - **REFLECTION**
  - **FOLLOW-UP**
  - **INTERPRETATION**
  - **APPLICATION**
  - **REUSABILITY**

**COLLECTIVE TRAINING**

- **After Action Review (AAR)**
  - **Collective**
  - **Debriefs**
  - **AAR**

**COMPLAINTS**

- **COLLECTIVE TRAINING**
  - **AAR**
  - **Debriefs**
  - **Collective**

**CONCLUSION**

- **COMPLETEness of the Learning Cycle**
  - **COMPLETE**
  - **COMPLAINTS**
  - **COMMISSION**

**EXPERIMENTAL REVIEW**

The COMPLETE Cycle

Form preparation, through exercises and debrief, to reviews and trend analysis, the CCT system utilises and supports Seab’s learning cycle concept.

**DEPLOYMENT OF DATA**

On completion of the exercise, the training advisor will utilise all the exercise data and AARs material and deliver it to the training control room. This data can be used to analyse trends, direct out data of training and feedback across the organisation.

**EXPERIMENTAL REVIEW**

The COMPLETE Cycle

Form preparation, through exercises and debrief, to reviews and trend analysis, the CCT system utilises and supports Seab’s learning cycle concept.

**DEPLOYMENT OF DATA**

On completion of the exercise, the training advisor will utilise all the exercise data and AARs material and deliver it to the training control room. This data can be used to analyse trends, direct out data of training and feedback across the organisation.