

BROADSHIELD®

RCIED Protection Solutions - Training Courses



One of the most significant areas of concern to soldiers in the field is that of Radio Controlled Improvised Explosive Devices (RCIEDs), which kill more soldiers in modern warfare than any other weapon system. Utilised by many terrorist organisations, the RCIED offers a multitude of advantages over other forms of attack, none more so than the ability to initiate a device at the optimum moment.

The ability to defeat the RCIED threat would substantially shift the balance of power, increasing the confidence of patrolling

troops on the front line. This activity and the ability to retain the use of combat radio without jamming the blue force is a principal focus for L-3 TRL Technology and we have already achieved widespread success in the field.

L-3 TRL's BROADSHIELD® Counter-RCIED range has been developed alongside a threat analysis cell that affords a genuine technical understanding of the threats as they emerge. This intelligence is used by our expert threat team to develop the most refined and advanced waveforms to defeat

the threat quickly and effectively.

For each of our BROADSHIELD® Electronic Counter Measure (ECM) solutions, there are a number of comprehensive training programmes available - designed to give our customers the knowledge to operate and maintain their systems at peak operational efficiency.

All our training courses have been specifically designed to meet the varying needs of our customers in a wide range of environments.

Why train?

L-3 TRL's RCIED Protection Solutions feature software-based radio architecture which ensures the ability to rapidly reprogramme the equipment in the field, in response to emerging threats in a dynamic environment.

In order to utilise the full functionality of our equipment in a variety of tactical scenarios and optimise its effectiveness, we have designed courses that provide customers with the essential skills and technical knowledge, enabling them to save lives and stay one step ahead of the enemy.

With the right training, BROADSHIELD® customers will be able to respond quickly and safely against the threat of RCIEDs, utilising the field-based expertise of our training team to ensure the equipment is used to its full potential.

Our dedicated team of ex-military personnel has a wealth of experience in Electronic Counter Measures (ECM) and can offer the perfect balance between analysing your training needs, designing comprehensive training programmes and delivering them

effectively to help develop customer best practice.

Our training programmes cater for a wide variety of requirements from basic through to advanced courses. We have built long-standing partnerships by ensuring that customer training needs are met in full.

Operating effectively

Our Operator courses provide ECM equipment operators with the skills and technical knowledge necessary to operate our BROADSHIELD® products safely and effectively.

Our one day operator courses combine informative, theoretical presentations, practical training and assessments which will enable the delegate to operate our BROADSHIELD® range of products at a basic operator level.

Delegates will be given information on:

- The current RCIED threat faced by armed forces around the world
- An overview of the BROADSHIELD® equipment, detailing the system capabilities
- Health & safety issues associated with the equipment
- How to recognise fault warnings

For our vehicle-borne systems, technical training will be given on how to install the equipment, along with detailed instruction on the correct cabling configuration.

For operators of man-portable systems, our training programmes will provide users with a detailed understanding on how to correctly set up the battery charger and the importance of battery management and storage. Training on bergen placement will also be included.

Optimising capability

L-3 TRL's ECM Manager course has been specifically designed for senior personnel who have operational responsibility involving the planning, configuration and deployment of ECM assets.

The course aims to provide managers with an understanding of how best to defeat RCIED threats using a variety of techniques.

Managers attending the course, both officers and soldiers, will gain a deeper understanding of how to plan, deploy and

control ECM assets based upon threat assessment, procedures and doctrine.

This four-day course includes a mixture of theoretical and practical sessions, culminating in realistic planning, tasking and managing of the scenario.

During the course, delegates will gain knowledge in the following areas:

- IED and RCIED threats observed in operational theatres

- Operational planning and considerations
- Tactics, techniques and procedures
- ECM storage, handling and configuration control



Managing the mission

The BROADSHIELD® Mission Manager course is aimed at senior managers involved in all aspects of the planning and creation of mission fills.

On conclusion of this two day course, the Mission Manager will have the ability to create mission fills for both training and operational scenarios.

The course content combines informative, theoretical presentations with practical exercises which will enable the delegate to

create missions using the 'Mission Editor', and send the created missions to the unit via a 'Fill Gun Utility' (FGU).

As well as receiving instruction on how to operate the BROADSHIELD® equipment effectively, the Mission Manager's course will also cover the following areas:

- Mission Editor software
- FGU with PDA option
- Alarms and warnings

The course will also cover basic repairs and maintenance, battery charging, bergen placement (for man-portable products) and installation and cabling (for vehicle-borne products).

Maintaining performance

For technicians and service personnel responsible for the installation and maintenance of ECM equipment, we offer both advanced and basic maintenance training programmes that will help ensure the long-term functionality of our BROADSHIELD® product range.

Maintenance courses:

For 1st and 2nd line personnel, our Basic Maintenance course provides information on the following procedures:

- Basic maintenance tasks
- System programming and testing

- Top level accessory replacement
- Gasket replacement
- Power requirements and distribution

The course will be tailored around the specific hardware requirements of our customers and enables the delegates to learn vital information through a mixture of theoretical and practical sessions based on the specifics of the system.

Advanced courses:

To cater for the requirements of 3rd line personnel, our advanced maintenance programmes deliver a full training service

enabling delegates to effectively maintain, programme, calibrate the system and identify/replace faulty components.

The Advanced Maintenance course includes the following additional components to the basic course:

- Fault diagnostics
- Calibration routines
- RF and mechanical considerations
- Advanced system testing
- Unit disassembly and repair



BROADSHIELD® Training courses:

| Course code | Course title | Duration | Prerequisites | Suitable for |
|-------------|--------------------------|-------------|--|--|
| MP-OPTR | Man-portable Operator | 1 day | None | ECM Operators |
| VS-OPTR | Vehicle System Operator | 1 day | None | ECM Operators |
| ECM-MAN | ECM Manager | 4 days | PC operation | Senior personnel |
| MIS-MAN | Mission Manager | 2 days | PC operation | Senior personnel |
| MT-212B | WBA Maintenance | 2 days | <ul style="list-style-type: none"> • PC operation • Knowledge of procedures and hand tools of maintenance trade • Radio Frequency basics • Spectrum Analyser operation | 1st and 2nd line technicians and service personnel |
| MT-251B | MCS Maintenance | 2 days | | |
| MT-211B | CES Maintenance | 2 days | | |
| MT-244V | WBS Vehicle Installation | 1 day | PC operation | 3rd line technicians and service personnel |
| MT-219V | MVS Vehicle Installation | 1 day | PC operation | |
| MT-249V | WBE Vehicle Installation | 1 day | PC operation | |
| MT-230A | TMP Advanced Maintenance | 2 days | <ul style="list-style-type: none"> • PC operation • Knowledge of procedures and hand tools of maintenance trade • Radio Frequency basics • Spectrum Analyser operation | |
| MT-240A | WBS Advanced Maintenance | 2 days | | |
| MT-210A | MVS Advanced Maintenance | 2 - 5 days* | | |
| MT-245A | WBE Advanced Maintenance | 2 days | | |
| MT-220A | AMP Advanced Maintenance | 2 days | | |
| MT-250A | MCS Advanced Maintenance | 2 days | | |

*Duration will vary depending on system configuration

Our instructors

Our dedicated team of highly trained ex-Military and Defence Engineers have over 20 years' operational experience of working in ECM environments. This expertise is derived from Force Protection and Explosive Ordnance Disposal (EOD) support roles in high threat theatres of operation worldwide. They bring a variety of job experiences, real-world applications and insight to enhance the learning process and ensure instruction is targeted to meet the needs of the customer.

Where we train

For the convenience of our customers, we provide training at either the customer's site or in our training centre in Tewkesbury. Our dedicated facility offers delegates access to in-house expertise and advanced technical equipment. The training centre is approximately 100 miles from London in the UK and easily accessible from local airports and minutes from junction 9, M5 motorway.

The next step

This brochure gives you an outline view of our BROADSHIELD® training courses. For further details on these courses or how we can create a bespoke solution to meet your exact needs, please contact us.

L3 TRL protects people worldwide from current and ever-evolving threats through market-leading defence solutions. We deliver innovative, proven technology in Electronic Warfare, Force Protection, Satellite Monitoring, Surveillance and Information Security to governments and defence agencies.

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L3 TRL reserves the right to amend specifications in the light of continuing development – 0908-1
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