



# **EWS TRAINING SERVICES**

## COURSE PROSPECTUS

Best-in-class training delivered by  
operationally experienced instructors



# WELCOME

As a dynamic, agile, equipment-agnostic company, EWS can help ease your training burden.

All of our highly qualified instructors have experience in training overseas, in hostile environments and as a result, our Mobile Training Teams bring added operational context and experience to our training programmes.



This brochure covers some of our most popular training courses. But all of our training courses can be adapted to capture your needs, including content, delivery on-site, at one of our dedicated training facilities, or in country if required.

Speak to us today about your training needs.

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# Land Electronic Warfare



## LEW 001: Communications Intelligence Foundation

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Course overview:	This introductory course is designed to teach Land Electronic Warfare (EW) Operators the basic skills required to conduct Communications Intelligence (COMINT) operations and provide an introduction to the disciplines of EW.
Intended audience:	Personnel who will be employed as an Intercept Operator in an EW unit and junior managers responsible for the collection and distribution of COMINT material.
Course content:	<ul style="list-style-type: none"><li>~ Communication principles</li><li>~ Radio Communications and Modulation</li><li>~ Radio Frequency Engineering Principles</li><li>~ Electronic Surveillance</li><li>~ Electronic Attack</li><li>~ Electronic Defence</li><li>~ Intelligence, Surveillance, Target Acquisition and Reconnaissance (ISTAR)</li><li>~ Land EW in Operations</li><li>~ Target Set</li><li>~ Mission Planning</li><li>~ Workshops including briefings, planning and simulator exercises</li></ul>
Course length:	15 Days
Students per course:	Maximum of 12
Entry criteria:	None



## LEW 002: Communications Intelligence Advanced

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Course overview:	This course follows on from the Foundation course and will allow the student to understand the principles behind the collection and demodulation of complex signals. This course will provide students with an understanding of how to conduct Interception and Processing of live signals.
Intended audience:	Personnel who will be employed as an Intercept Operator in an EW unit, and technical supervisors responsible for the collection and distribution of COMINT material.
Course content:	<ul style="list-style-type: none"><li>~ Software Defined Radio Specifications and Manipulation</li><li>~ Receiver Manipulation to include: tuning, band and channel scans</li><li>~ Tuning of Target Signals</li><li>~ Demodulation</li><li>~ Recording Techniques</li><li>~ Principles of Direction Finding</li><li>~ Logging and Reporting</li><li>~ Map Symbols</li><li>~ Electronic Order of Battle</li></ul>
Course length:	10 Days
Students per course:	Maximum of 12
Entry criteria:	LEW001: Communications Intelligence Foundation

## LEW 003: Electronic Warfare in the Land Domain

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<b>Course overview:</b>	This course gives personnel a grounding in the Policy, Doctrine and Terminology used in the Land EW Domain. It is aimed at those involved in the EW process and management of EW capability. This will give an insight into the Plan, Deploy, Sustain and Recovery aspects of Land EW assets.
<b>Intended audience:</b>	Industry, Academia and Military Officers who will be employed in the Land EW Domain.
<b>Course content:</b>	<ul style="list-style-type: none"><li>~ Introduction to Electronic Warfare</li><li>~ Electronic Surveillance</li><li>~ Electronic Attack</li><li>~ Electronic Defence</li><li>~ Intelligence, Surveillance, Target Acquisition and Reconnaissance (ISTAR)</li><li>~ The Intelligence Cycle</li><li>~ Customer Driven Output</li><li>~ EW Estimate</li><li>~ Workshops including briefings, planning and simulator exercises</li></ul>
<b>Course length:</b>	5 Days
<b>Students per course:</b>	Maximum of 12
<b>Entry criteria:</b>	None

# Electronic Warfare in Counter Insurgency Operations





## COIN 001: Electronic Counter Measures Fundamentals

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Course overview:	This course explains the fundamentals of Electronic Counter Measures (ECM) in the Counter Insurgency (COIN) environment. It will also cover the use of Electronic Warfare (EW) and Counter RCIED Electronic Warfare (CREW). Students will look at how to use ECM to counter improvised threats posed by unmanned aerial systems (UAS). This course will examine the RCIEDs available to the insurgent, how they are employed and the methods used to counter the threat.
Intended audience:	Personnel requiring the building block knowledge for the Land-based Force Protection ECM arena, enabling them to gain an understanding of the fundamentals of the RCIED threat and the functioning of ECM equipment.
Course content:	<ul style="list-style-type: none"><li>~ Global Radio Controlled Improvised Explosive Device (RCIED) Threat</li><li>~ Understanding the IED</li><li>~ Time, Command and Victim Operated Devices</li><li>~ Understanding ECM Tactics and Techniques</li><li>~ Networks</li><li>~ Countering UAS improvised threats with ECM</li><li>~ Electromagnetic Battle Management</li><li>~ Mission Fill Development</li><li>~ Equipment maintenance</li><li>~ ECM, EW and CEMA</li></ul>
Course length:	5 Days
Students per course:	Maximum of 12
Entry criteria:	None

## COIN 002: Electronic Counter Measures Manager's Course

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Course overview:	This course provides a deeper understanding of the processes involved in managing ECM capability. Opportunities will be given to practice the deployment and deconfliction of multiple ECM platforms in the same operational area to defeat the RCIED. Students will look at how to use ECM to counter improvised threats posed by unmanned aerial systems (UAS). They will also see how friendly Tactics, Techniques and Procedures are employed to keep the Force safe while maintaining the effective use of the Electromagnetic Environment.
Intended audience:	Personnel involved in the strategic and tactical management of ECM capability.
Course content:	<ul style="list-style-type: none"><li>~ Global Radio Controlled Improvised Explosive Device (RCIED) Threat</li><li>~ Electronics in RCIED switches</li><li>~ Radio Theory</li><li>~ Networks</li><li>~ Countering UAS improvised threats with ECM</li><li>~ Time, Command and Victim Operated Devices refresher</li><li>~ Receivers and RCIED theory</li><li>~ ECM Standard Operating Procedure (SOP) Considerations</li><li>~ RCIED and ECM theory</li><li>~ Command Threat Assessment</li><li>~ Scenario Based Training</li></ul>
Course length:	5 Days
Students per course:	Maximum of 12
Entry criteria:	COIN 001: Electronic Counter Measures Fundamentals

## COIN 003: Introduction to Technical Exploitation

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Course overview:	This course gives personnel the expertise to handle recovered RCIED switches to gain maximum forensics and extract the technical specifications, identify potential technology advances and advise on ECM capability gaps.
Intended audience:	Personnel employed in a Weapons Intelligence role or Technical Development of ECM Equipment.
Course content:	<ul style="list-style-type: none"><li>~ Time, Command and Victim Operated Devices</li><li>~ Threat Assessment</li><li>~ The Exploitation Process</li><li>~ Initial Response</li><li>~ Assessment and Documentation</li><li>~ Recovery and Receipt</li><li>~ Tactical Assessment and Profiling</li><li>~ RCIED Threat Analysis</li><li>~ Introduction to ECM</li><li>~ Scenario-based training, including the writing of an exploitation report</li></ul>
Course length:	5 Days
Students per course:	Maximum of 12
Entry criteria:	COIN 002 Electronic Counter Measures Manager's Course

# Electro Magnetic Battle Management





## EMBM 001: Mission Fill Development

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Course overview:	Providing students with the knowledge and understanding of the RCIED and the technical requirements to programme, test and validate an ECM equipment to counter a Radio Controlled Threat.
Intended audience:	Personnel involved in the Technical Development of ECM equipment.
Course content:	<ul style="list-style-type: none"><li>~ Land EW in Tactical Operations</li><li>~ Information Operations</li><li>~ ISTAR</li><li>~ Introduction to the IED</li><li>~ Time, Command and Victim Operated devices</li><li>~ Radio Theory</li><li>~ RCIED Construction</li><li>~ Support Agencies</li><li>~ ECM Tactics vs. Technology</li><li>~ ECM Planning Exercise</li><li>~ Waveform Analysis</li><li>~ Transmitter/Receiver Architecture</li><li>~ Programme and Simulation</li><li>~ Hardware in the Loop</li><li>~ Testing considerations, including Laboratory and Range</li><li>~ Mission Fill and RF design consideration</li><li>~ Practical exercises and presentations</li></ul>
Course length:	10 Days
Students per course:	Maximum of 12
Entry criteria:	COIN 002: Electronic Counter Measure Manager's Course COIN 003: Introduction to Exploitation

## EMBM 002: Management of the Electro Magnetic Battlespace

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**Course overview:** This course provides communicators with the theoretical and practical skills to conduct elements of Battlespace Spectrum Management as a Frequency Manager.

**Intended audience:** Staff who will be employed in a Spectrum Manager capacity.

**Course content:**

- ~ Radio Theory
- ~ Communications Engineering Principles
- ~ Sources of Interference
- ~ Electro Magnetic Compatability
- ~ Satellite Communications
- ~ Link and Network Analysis
- ~ Service Specific Planning
- ~ Assigning Frequencies
- ~ Interferer Resolution
- ~ Frequency Management Software

**Course length:** 10 Days

**Students per course:** Maximum of 12

**Entry criteria:** None

# Student feedback

*"I work in Lab and my job is to analyse the devices or evidences. I really learnt a lot on this course. In addition, I have learnt how to compare devices / circuit boards and find out their similarities or differences. This course was very useful for me and I look forward to using my new skills."*

*"Since I attended in this course and training, we can investigate items that are sent to us from other provinces. I have learnt a lot about different circuit boards, remote control systems, switches, and other electrical equipment."*

*"I have been on training courses throughout my whole career, and this is by far the one that I have learned the most."*

*"Before this course, I had no idea about remote control circuit boards but now I know about most of its components, functions and in which frequency they can operate."*



# Intelligence Training





## INT 001: Analysis Skills for Intelligence Production

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Course overview:	This foundation course will provide attendees with the tools to analyse raw data, extracting the necessary information to produce a tangible intelligence product that can be used for reporting purposes and to brief a Commander.
Intended audience:	Personnel requiring the skills to operate in the role of Intelligence Analyst or personnel working with an intelligence product.
Course content:	<ul style="list-style-type: none"><li>~ Intelligence Cycle</li><li>~ All Source Intelligence</li><li>~ Creative/Critical Thinking</li><li>~ Analysis of Competing Hypotheses</li><li>~ Unconscious Bias</li><li>~ Visualisation of Data</li><li>~ Presentation Skills</li><li>~ Identifying Intelligence Gaps</li></ul>
Course length:	5 Days
Students per course:	Maximum of 12
Entry criteria:	None

# Improvised Explosive Device Disposal Training



## IEDD 00X: Tailored IEDD Training

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<b>Workshop overview:</b>	Our training team excels in the provision of tailored training for bomb squads, explosive ordnance disposal (EOD) units and counter terrorism teams. Having worked on five continents providing professional development for both fully qualified and new operators, our expertise allows us to work with operational commanders to design courses for individual, team or multi-agency operations. Underpinned by global intelligence, our threat-led training courses are designed specifically to address your operational needs and challenges and are aimed at providing a balance of theory and practical exercises, driven by real world scenarios and current terrorist tactics.
<b>Intended audience:</b>	New or qualified bomb disposal operators or other specialist tactical teams faced with defeating the threat posed by IEDs.
<b>Workshop content:</b>	<ul style="list-style-type: none"><li>~ Courses will be individually designed to meet the specific operational needs and aims of attendees</li><li>~ Theoretical exercises</li><li>~ Practical exercises</li></ul>
<b>Workshop length:</b>	Typically delivered in 5 Day Modules
<b>Students per course:</b>	None
<b>Entry criteria:</b>	None
<b>Additional information:</b>	This course will be delivered by a Mobile Training Team at a location of your choice. Alternatively, we have suitable training facilities available in the UK.



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