

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 onsite, at one of our dedicated training facilities, or in country if required.

Speak to us today about your training needs.

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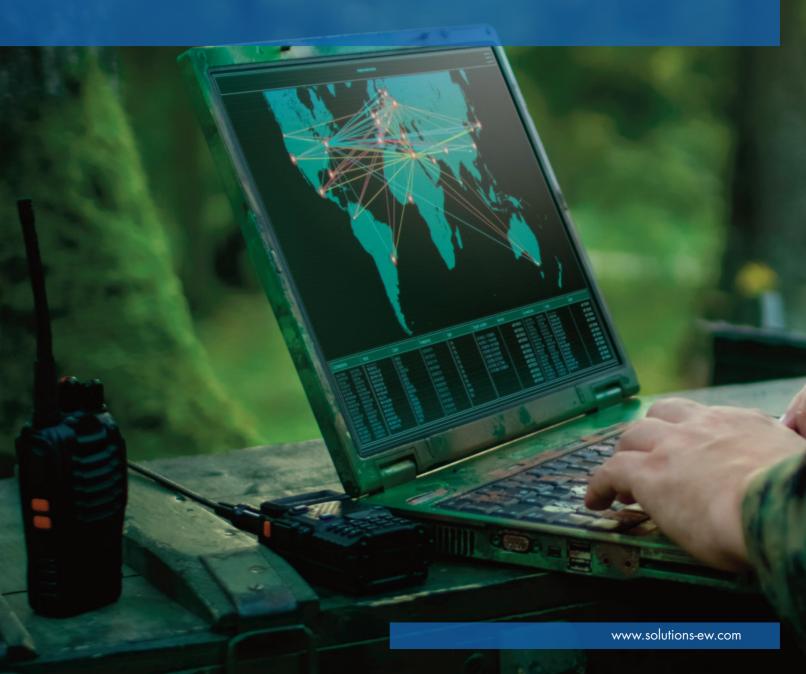
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Land Electronic Warfare



LEW 001: Communications Intelligence Foundation

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: ~ Communication principles

~ Radio Communications and Modulation

~ Radio Frequency Engineering Principles

~ Electronic Surveillance

~ Electronic Attack

~ Electronic Defence

~ Intelligence, Surveillance, Target Acquisition and Reconnaissance

(ISTAR)

~ Land EW in Operations

~ Target Set

~ Mission Planning

~ Workshops including briefings, planning and simulator exercises

Course length: 15 Days

Students per course: Maximum of 12

LEW 002: Communications Intelligence Advanced

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: ~ Software Defined Radio Specifications and Manipulation

Receiver Manipulation to include: tuning, band and channel scans

~ Tuning of Target Signals

~ Demodulation

~ Recording Techniques

Principles of Direction Finding

Logging and Reporting

~ Map Symbols

~ Electronic Order of Battle

Course length: 10 Days

Students per course: Maximum of 12

Entry criteria: LEW001: Communications Intelligence Foundation

LEW 003: Electronic Warfare in the Land Domain

Course overview: 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.

Industry, Academia and Military Officers who will be employed in the

Land EW Domain.

Course content: ~ Introduction to Electronic Warfare

~ Electronic Surveillance

~ Electronic Attack

~ Electronic Defence

~ Intelligence, Surveillance, Target Acquisition and Reconnaissance

(ISTAR)

The Intelligence CycleCustomer Driven Output

~ Cusioniei Driven O

~ EW Estimate

Workshops including briefings, planning and simulator exercises

Course length: 5 Days

Students per course: Maximum of 12





COIN 001: Electronic Counter Measures Fundamentals

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: ~ Global Radio Controlled Improvised Explosive Device (RCIED) Threat

~ Understanding the IED

Time, Command and Victim Operated Devices

Understanding ECM Tactics and Techniques

~ Networks

~ Countering UAS improvised threats with ECM

~ Electromagnetic Battle Management

Mission Fill Development

~ Equipment maintenance

~ ECM, EW and CEMA

Course length: 5 Days

Students per course: Maximum of 12

COIN 002: Electronic Counter Measures Manager's Course

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: ~ Global Radio Controlled Improvised Explosive Device (RCIED) Threat

~ Electronics in RCIED switches

~ Radio Theory

~ Networks

~ Countering UAS improvised threats with ECM

~ Time, Command and Victim Operated Devices refresher

~ Receivers and RCIED theory

~ ECM Standard Operating Procedure (SOP) Considerations

~ RCIED and ECM theory

~ Command Threat Assessment

~ Scenario Based Training

Course length: 5 Days

Students per course: Maximum of 12

Entry criteria: COIN 001: Electronic Counter Measures Fundamentals

COIN 003: Introduction to Technical Exploitation

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: ~ Time, Command and Victim Operated Devices

~ Threat Assessment

The Explotation Process

~ Initial Response

Assessment and Documentation

~ Recovery and Receipt

Tactical Assessment and Profiling

RCIED Threat AnalysisIntroduction to ECM

Scenario-based training, including the writing of an exploitation

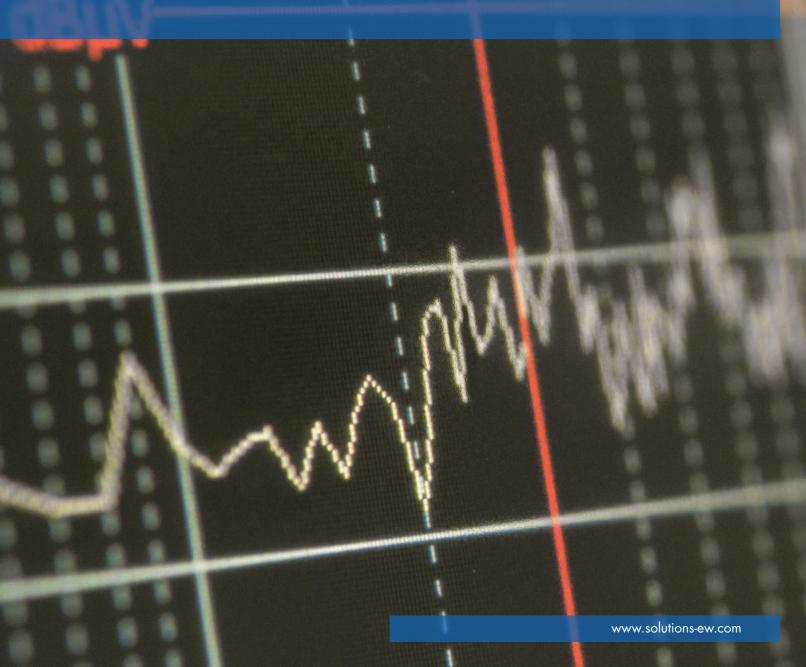
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Course length: 5 Days

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

Providing students with the knowledge and understanding of the RCIED and Course overview:

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.

~ Land EW in Tactical Operations Course content:

Information Operations

ISTAR

Introduction to the IED

Time, Command and Victim Operated devices

Radio Theory

RCIFD Construction

Support Agencies

~ ECM Tactics vs. Technology

~ ECM Planning Exercise

Waveform Analysis

Transmitter/Receiver Architecture

Programme and Simulation

~ Hardware in the Loop

~ Testing considerations, including Laboratory and Range

Mission Fill and RF design consideration

Practical exercises and presentations

Course length: 10 Days

Maximum of 12 Students per course:

COIN 002: Electronic Counter Measure Manager's Course Entry criteria:

COIN 003: Introduction to Exploitation

EMBM 002: Management of the Electro Magnetic Battlespace

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 AnalysisService Specific Planning

Assigning Frequencies

~ Interferer Resolution

~ Frequency Management Software

Course length: 10 Days

Students per course: Maximum of 12

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."

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

"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."



INT 001: Analysis Skills for Intelligence Production

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: ~ Intelligence Cycle

All Source Intelligence

~ Creative/Critical Thinking

~ Analysis of Competing Hypotheses

~ Unconscious Bias

Visualisation of Data

~ Presentation Skills

~ Identifying Intelligence Gaps

Course length: 5 Days

Students per course: Maximum of 12



IEDD 00X: Tailored IEDD Training

Workshop overview: 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 terorrist tactics.

Intended audience: New or qualified bomb disposal operators or other specialist tactical

teams faced with defeating the threat posed by IEDs.

Workshop content: ~ Courses will be individually designed to meet the specific

operational needs and aims of attendees

~ Theoretical exercises

~ Practical exercises

Workshop length: Typically delivered in 5 Day Modules

Students per course: None

Entry criteria: None

Additional information: 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.

