



MERCURY
ELECTRONIC WARFARE





The Challenge

The defence industry continues to improve their Electronic Warfare (EW) systems and capabilities in the Land, Maritime and Air domains to meet the demanding operations of the war fighter. Therefore, the provision of operational support and training that is cost effective as well as providing value added operational advice on the efficient use of equipment and its operation is essential to the continued success of future EW operations.

The Solution

Mercury Electronic Warfare Limited is a dynamic and growing UK company populated by Ex Her Majesty's Forces Land, Maritime and Air EW specialists. We provide a complete range of EW specialist services to the demanding defence sector. From providing vital EW Operational Support to designing and delivering high quality, effective operational EW training, our domain knowledge expertise provides you with a single source and a perfect solution.

The Mission

Our mission is to provide all our customers and clients with world class, bespoke and credible EW solutions. Our Joint Service operational backgrounds mean we can place ourselves at the cutting edge of this specialisation. Having firsthand experience as a warfighter, we understand our customers' needs. We are striving to be the EW service provider of choice to the Defence Industry.



Electronic Warfare

Electronic Warfare plays a key role in all aspects of military operations around the world, ranging from war-fighting to counter insurgency to peace support operations. Irrespective of the type of operation, commanders cannot function without tangible, actionable intelligence.

During recent operations EW really has proven its worth and is considered one of the most significant and productive sources of intelligence. Advanced Electronic Warfare systems and techniques are at the cutting edge of technology, enabling information to be rapidly processed into intelligence so that commanders can react in time to achieve a desired military effect.

Our staff has extensive experience in all aspects of EW; whether it is equipment, procedural or training based we can offer solutions. We have subject matter expertise in Land, Maritime and Air covering the following:

- All aspects of ES, EA and EP
- ELINT Collection and Analysis
- COMINT Collection and Analysis
- Tactical Maritime Radar ESM procedures and doctrine
- Maritime ECM capabilities and procedures against modern weapons
- Anti Ship Missile Defence Tactics
- EW Database management and Mission Library/MDD/PFM requirements
- Equipment Specific Maintenance procedures
- Asset Deployment
- Counter RCIED
- Provision of EW Training at Basic, Intermediate and Advanced levels
- EW equipment procurement at Staff Officer level
- IMINT Collection and Analysis

Electronic Warfare Training

Mercury Electronic Warfare Ltd provides specialised EW training solutions. Whether your requirement is for specific product training or the design and development of a bespoke EW training course or programme, we can deliver. We have a proven track record in the provision of quality, value added operational EW training. All our EW courses are designed and developed in accordance with Defence Systems Approach to Training (DSAT) methodology. Our EW practitioners possess extensive knowledge and experience in course design and delivery.

Our Training Staff are experts in:

- Joint Service Publication (JSP) 822
- Training and Learning Needs Analysis (TLNA)
- Job Analysis
- Course Design & Delivery



Courses we offer:

- Foundation, Intermediate & Advanced EW Training
- EW Staff Officers' Course
- Battlespace Spectrum Managers' Course
- ELINT Technical Analysis Course
- Radar Fundamentals Course
- Maritime ECM Course
- EW Capability and Procurement Training
- Intelligence Training
- IMINT Analysis Course
- EW for Engineers



A unique part of our portfolio of services is to offer credible, accredited training that rewards the student with a certificate of achievement that is universally recognised.

All of our courses can be accredited by the University of Lincoln (UL) with Credit Accumulation and Transfer Scheme (CATS) points. Students may transfer appropriate credits gained from our courses and programmes to other universities or colleges.



Counter-RCIED

The rapid development of technology requires new, innovative and advanced EW techniques and capabilities to protect the warfighter when deployed on Operations. With the increasing use of Improvised Explosive Devices (IEDs) and Radio Controlled Improvised Explosive Devices (RCIEDs) as weapons of choice for insurgents and terrorist organisations, the safety of your military personnel is paramount.

Mercury EW has operationally experienced, technically and tactically focused experts in Counter RCIED Electronic Warfare (CREW) that can provide the most effective solution to meet your requirements.

Our expertise covers:

- Development of EOD ECM and Electronic Surveillance strategies
- Development of EOD ECM Policy, Doctrine and Operational Procedures for EOD teams
- Creation of EOD ECM SOPs for overseas military organisations
- Project Management of EOD ECM equipment programmes, including Requirements Capture, integration across all Lines of Development and System Acceptance
- Development of Urgent Operational Requirements (UORs) to meet current and emerging RCIEDs threats
- Development of Concept of Employments (CONEMPs)
- Operational Planning and execution of ES and ECM support to EOD



ISTAR

Commanders need a robust mix of Intelligence, Surveillance, Target Acquisition and Reconnaissance assets at their disposal. However, this alone is insufficient to enable commanders to execute timely decision making responses.

A coordinated system of systems approach must be adopted if a single accurate, reliable and actionable intelligence product is to be provided to a commander in near real-time. Equally, commanders and their staff must be knowledgeable in a wide array of ISTAR capabilities and the types of product and services available if they are to use them to best effect to answer Intelligence Requirements.

Mercury EW has operational experience and knowledge of Land and Maritime ISTAR systems and processes. Deployed on operations spanning the last 25 years, we have first-hand experience of ISTAR working practices; managing, deploying and tasking EW assets at all levels to support commanders' Intelligence Requirements.

Our staff has expertise in:

- ISTAR concepts
- ISTAR processes
- ISTAR Command and Control
- Employment of Collection Assets
- Extensive knowledge in Collection Capabilities



Surveillance and Target Acquisition (STA)

With the constant need to protect our troops deployed on operations in Forward Operating Bases (FOBs) and Patrol Based (PBs) previously in Iraq and currently in Afghanistan, STA assets are the eyes of the troops on the ground providing vital protection and support.

Mercury EW has extensive knowledge and current operational experience in the deployment of Counter Indirect Fire (C-IDF) and Base ISTAR capabilities.

Our expertise covers:

- Deployment and operation of COunter Battery RADar (COBRA)
- Deployment and operation of Mobile Artillery Monitoring Battlefield Radar(MAMBA)/ARTillery Hunting Radar (ARTHUR)
- Deployment on operation of Lightweight Counter Mortar Radar (LCMR)
- Development and delivery of COBRA operator and maintainer training
- Development and delivery of MAMBA/ARTHUR operator training
- Development and delivery of LCMR operator training
- Current Doctrine and Operational Procedures for (C-IDF) assets
- Development of Concept of Employment (CONEMPs)
- Operational planning and execution of C-IDF support to STA operations worldwide



Operational Subject Matter Expert (SME) Placement

Mercury EW prides itself on having unlimited access to an extensive network of EW and Defence Specialists. We are able to outsource technically gifted and current operationally focused personnel to provide a cost effective alternative to employing permanent staff.

Available on short, medium or long-term contracts, our people will provide real operational experience and advice to the in-country customer and act as a key interface to the capability suppliers.

Mercury EW is currently providing permanent staff on long term contracts to clients in the Middle East.

Our expertise lies in the provision of:

- Intelligence Support Experts (ISE)
- Field Support Engineers (FSE)
- Operational Technical Assistants (OTA)
- Operational Support Experts (OSE)
- Joint Operational EW Trainers
- IMINT Analysts
- Intelligence Analysts



Project Management

Defence Organisations demand a more integrated and effective approach to the management of their projects. They prefer their staff to have recognised qualifications in Project Management so that they can understand and apply effective and clearly defined processes within their organisations.

The completion of their projects on time, within budget and with the requisite functionality and quality are the minimum requirements. Organisations also seek effective risk mitigation and certainty that projects will be completed. All of our staff is fully qualified in Project Management methodologies such as PRINCE 2 and MSP (Managing Successful Programmes).

We provide expertise in:

- Identifying Capability Gaps
- Requirements Capture
- Developing Statements of User Requirement (Urgent and Core)
- Developing User Requirements Documents
- Developing Concept of Employment Documents
- Capability Integration Management
- Equipment Trials and Testing Planning and Execution
- Subject Matter Advice on Equipment Capabilities
- Development of Standard Operating Procedures and Tactics, Techniques and Procedures



Academic Solutions

Mercury Electronic Warfare Ltd, in partnership with University of Lincoln (UL), is offering bespoke programmes of study designed for Land, Maritime or Air EW practitioners to gain postgraduate academic recognition for their profession.

This academic programme is designed to complement any EW training initiative at the Basic, Intermediate and Advanced level. It can be designed and developed around an existing or new EW Training initiative and run seamlessly alongside any EW career path.

The benefits of providing academic accreditation for EW training include:

- Unique and bespoke academic programme designed for EW practitioners
- Comprehensive academic programme underpinned by the University of Lincoln
- Comprehensive long term career path for the professional EW practitioner
- A programme constructed specifically around the student's military career path
- Provides mentoring approach to education
- Increase in student's overall effectiveness
- Promotes advancement and retention
- Encourages achievement
- Increases operational effectiveness, promoting EW and its role in modern warfare
- Provides highly qualified students for advancement



Academic Solutions

There are currently 3 options available that we offer for delivering EW academic programmes:

- Provide a full Training and Learning Needs Analysis (TLNA) for your EW School or EW Organisation then design and deliver a full EW programme to include:

A complete Basic EW training programme, plus academic modules at level 1
(120 credits)

A complete Intermediate EW training programme, plus academic modules at level 2
(240 credits)

A full programme of Advanced EW training, plus academic modules at level 3
(300 credits). Additional modules are required to achieve the award of BSc (Honors)
(360 credits)

- Provide top up EW Modules to your existing Basic, Intermediate and Advanced EW Training programmes to qualify for the appropriate learning hours plus the associated academic modules
- If your existing Basic, Intermediate and Advanced EW Training is at the appropriate level, we can fully accredit your current EW training programme and provide the academic modules for your students to qualify for the award

Partners

Tangent Link Ltd

Mercury Electronic Warfare Ltd has a strategic partnership with Tangent Link Ltd. We participate in Tangent Link Ltd EW events and conferences around the world as well as providing EW training and consultancy to a number of ongoing projects.

University of Lincoln

Mercury Electronic Warfare Ltd has a signed memorandum of agreement (MoA) with the University of Lincoln (UL) to work in partnership to develop and provide academically recognised EW training programmes for UK and international defence markets. For more information regarding our academic solutions email your query to info@mercuryew.com

DTM Global Ltd

Mercury Electronic Warfare Ltd and DTM Global Ltd have a Consultancy Services Agreement covering opportunities in the Middle East region. DTM Global Ltd are industry leaders in computer based simulation systems to optimise Military Training, Mission Planning and Tactical Deployment on land, sea and in the air.

Jenkins Engineering Defence Pty Ltd

Mercury Electronic Warfare Ltd offers ELINT Technical Analysis training courses and has an agreement with JEDS to use PulsePro, a graphical real-time PDW collection and analysis tool.

Global Defence Solutions Pty Ltd

Mercury Electronic Warfare Ltd and Global Defence Solutions (GDS) Pty Ltd are working together on opportunities in the Pacific Rim.



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