



Electronic Warfare Course List

STA, Mercury Electronic Warfare Limited (MEW) and IDAT Institute form a Defence Training Consortium specialising in C4ISTAR and EW consultancy, operational support and training design, development and delivery.

Training Courses

MEW has a portfolio of 'Off-The-Shelf' courses, all of which are the product of a Needs Analysis process. Our courses are delivered using a blend of learning materials to enhance each student's experience e.g. PowerPoint, student based syndicate exercises, equipment simulation, scenario generation. Each course is complimented by a fully auditable Defence Systems Approach to Training (DSAT) document set and has undergone UKTI Private Venture security grading. MEW courses can be delivered at short notice in the UK or in the customer's country.

Our 'Off-The-Shelf' courses include:

★ Land EW (operator or officer)

This course addresses the key management functions regarding the planning, preparation, deployment and sustainment of Land EW capability in a deployed operational context. This includes the processes and procedures required to effectively manage EW capability. It focuses on the employment of EW assets and how best to utilise these assets in a variety of operational environments. There will be a detailed focus on Counter Radio Controlled Improvised Explosive Devices (C-RCIEDs) covering threats, equipment, technology cycle, interoperability and Tactics, Techniques and Procedures (TTPs).

★ Maritime EW (operator or officer)

This four-week course addresses some key elements of Tactical Maritime EW and will provide delegates with a sound operational understanding and appreciation of Maritime EW and its role in modern warfare. The course includes planning, processes, tactics and procedures required to effectively conduct Maritime EW operations. The subjects are designed to be in line with current generic maritime practices within modern navies but are not specific to any particular equipment deployed on naval platforms.

★ ELINT Technical Analysis

This course focuses on the key elements of ELINT Technical Analysis and will provide delegates with a sound operational understanding and appreciation of ELINT and its role within modern warfare. The course will be delivered with a blend of theory and practical based lessons. The practical elements of the course are conducted using a state of the art Pulse Analysis Tool and allow delegates to conduct Technical Analysis of real world parameters.

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★ RADAR Fundamentals

This course is designed to inform and introduce delegates to the background, history and key operating principles used in modern Radar technology. The course will be delivered with a blend of theory and practical based lessons to increase delegates knowledge and understanding of the complex parameters used in modern Radar systems. It will also explore how the changing of parameters and physical elements of a Radar system influences performance and operating capabilities.

★ Counter RCIED Workshop

This workshop is designed to address the key areas regarding the planning, preparation, deployment and sustainment of Electronic Counter Measures used specifically to inhibit RCIEDs in a deployed operational context. This includes the processes and procedures required to effectively manage ECM capability. It will cover the RCIED threat; an historical insight into how devices have developed in different environments. Different types of IEDs will be discussed, focusing on the requirements of an RCIED. The workshop will focus in detail on the requirements of ECM equipment and the various methods of jamming that can be used to inhibit RCIEDs. It will also concentrate on the Technology Cycle; exploiting emerging threats and developing new waveforms or new equipment as a timely response to the threat.

★ Maritime Electronic Attack

Addressing the key fundamentals of Maritime EA, this course covers all key operational aspects and will increase delegates' understanding of EA and how it is applied within modern ASMD tactics. During the practical elements of the course students will use MC Countermeasures Integrated Radar EW Test & Training Simulator (IREWTS) for learning and understanding the principles of Radar EW and Countermeasures.

★ Battle Space Spectrum Management

This course is designed to focus on the key elements of spectrum management in a deployed operational context. This includes the organisation, policy, processes and procedures required to effectively manage the electromagnetic spectrum. It will address the principles of effective spectrum management including acquisition, planning and deployment of spectrum dependent capability; the spectrum management process from mission preparation to deployment, sustainment and recovery; multinational doctrine and proposed national, joint and single service policy, doctrine, organisation and procedures.

★ Air EW Self Protection (AEWSP)

This Foundation Air EWSP course will provide delegates with a sound appreciation of the role of Air EWSP within modern Air Warfare by examining the strengths and weaknesses of Infrared (IR) and Radio-Frequency (RF) guided Weapon Systems, and the options available for countering the threat they pose. Courses will be delivered with a blend of theory and demonstration based lessons. The demonstration elements of the course will be conducted using mathematical models and simulations.

