



# Introduction to Electronic Warfare

## Operations and Systems

01-03 March 2010, Lincoln, UK

## Countermeasure Development

29-31 March 2010, Lincoln, UK



trusted to support secure operations

# Introduction to Electronic Warfare



## Operations and Systems

01-03 March 2010, Lincoln, UK

### INTRODUCTION

Electronic Warfare (EW) is essentially a battle for dominance and control of the electromagnetic spectrum. The winner of this battle will be the side that has a better knowledge of the tactics, techniques and procedures used to achieve this dominance and control.

This 3-day Introduction to EW Operations and Systems course is designed for military and industry managers, technologists and engineers that require a broader understanding of the principles of EW tactics, techniques and procedures. The course's focus on operational and system fundamentals makes it appropriate for practitioners in all the domains, i.e. land, maritime and air.

### AIM OF THE COURSE

The aim of this course is to provide students with an understanding of the operation of radio frequency (RF), electro-optic (EO) and infrared (IR) guided weapon systems and the technology and systems developed to counter them. Students will also learn about the EW kill-chain and the performance and effectiveness of the systems and technology within it.

### HOW YOU WILL BENEFIT

This course will describe and explain the following areas:

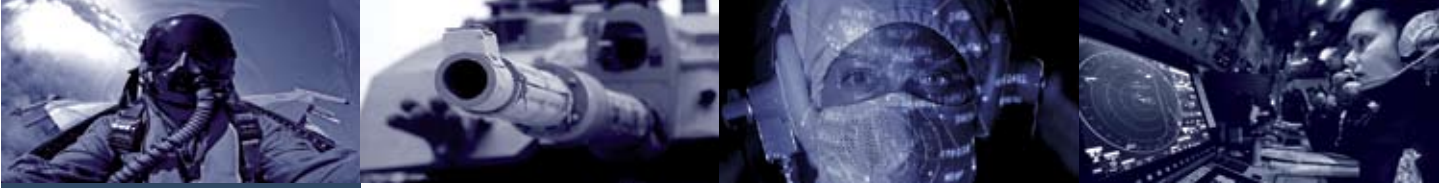
- The concepts, terminology and application of EW;
- Threat weapon systems and their vulnerabilities;
- Active and passive RF, EO and IR systems;
- Design and architecture of EW systems;
- Electronic support measures;
- Electronic attack;
- Electronic protection;
- EW operational support;
- Test and evaluation;
- Global trends in the co-evolution of EW technology.

### WHO SHOULD ATTEND

- Military and civilian EW practitioners;
- EW, radar and EO/IR systems engineers, scientists and technologists;
- EW project managers;
- Procurement staff and managers;
- Operations staff, supervisors and managers;
- EW training staff, supervisors and managers.



# Introduction to Electronic Warfare



## Countermeasure Development

29-31 March 2010, Lincoln, UK

### INTRODUCTION

Guided weapon systems exploit the radio frequency (RF), electro-optic (EO) and infrared (IR) portions of the electromagnetic spectrum in order to sense targets in the battle space. These weapon systems are becoming ever more complex, and pose increasingly difficult platform protection problems to solve.

This 3-day Introduction to Electronic Warfare (EW) Countermeasure Development course is designed for military and industry managers, technologists and engineers that require a deeper understanding of the principles behind developing platform protection tactics, techniques and procedures. The course's main focus on countermeasure (CM) development fundamentals makes it appropriate for practitioners in all domains, i.e. land, maritime and air.

### AIM OF THE COURSE

The aim of this course is to provide students with an understanding of threat vulnerability analysis, CM design and CM test and evaluation. Consequently, there is a need to develop the processes to deliver effective countermeasures and enhance platform survivability. The course will also introduce the student to the modelling and simulation methods that are necessary for assessing the performance of countermeasures as they are developed and maintained through their life-cycle.

### HOW YOU WILL BENEFIT

This course will describe and explain the following areas:

- The role of CM development in EW operational support;
- The CM development process;
- RF, EO and IR guided weapon systems;
- The kill chain and engagement;
- Threat vulnerability analysis;
- CM techniques and performance assessment;
- Exploiting weapon system vulnerabilities;
- CM design and optimisation;
- Engagement modelling and simulation.

### WHO SHOULD ATTEND

- Military and civilian EW practitioners;
- EW, radar and EO/IR systems engineers, scientists and technologists;
- EW project managers;
- Procurement staff and managers;
- Operations staff, supervisors and managers;
- EW training staff, supervisors and managers.





## Course Details

Three Day EW Courses:

1. Introduction to EW - Operations and Systems 01 – 03 March 2010
2. Introduction to EW - Countermeasure Development 29 – 31 March 2010

Course	Standard Price
<input type="checkbox"/> Introduction to EW - Operations and Systems	£995 +VAT
<input type="checkbox"/> Introduction to EW – Countermeasure Development	£995 +VAT

## Delegate Details

(Complete separate form for each delegate)

Name and Title

Job Title

Organisation

Address

Post Code  Country

Tel No  Fax No

E-mail

Nationality

*Lunch is provided for the duration of the course, please notify us of any special dietary requirements.*

Dietary Req

## Payment Details

Cheque: Payable to Mass Consultants Limited  Please invoice me/my organisation

Purchase Order Number (If required)

## Contact Us

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 Lincoln                Web: www.mass.co.uk  
 LN6 7QY UK          E-mail: ShortCourses@mass.co.uk

### Data Protection Act

MASS manages data in accordance with the Data Protection Act 1998. We will not share your data with other companies or agencies. Please tick this box if you do not wish to be contacted by us about other products and services which may be of interest to you.

### Accommodation Suggestions

Best Western Hotel, LN6 9NH      Tel: +44 (0)1522 878000      www.thebentleyhotel.uk.com  
 Holiday Inn, LN1 1YW              Tel: +44 (0)1522 544244      www.holidayinn.co.uk  
 Holiday Inn Express city centre, LN6 7BD      Tel: +44 (0)1522 504200      www.expresslincoln.co.uk

Substitutions may be made at no charge, provided the organisers are informed prior to the start of the course. If you have to cancel your booking, please do so in writing or by e-mail to MASS. Cancellations up to 10 working days prior to the start date are subject to a £100 administration fee after which, regrettably, no refund can be made.