



Changes in EMC legislation which affect fixed installations mean that many companies within the built environment are unaware of their legal obligation and the importance of meeting the new requirements of the Electromagnetic Compatibility (EMC) Directive 2004/108/EC.

This new Directive states that it is imperative for best EMC engineering practices to be adopted when fitting new installations as well as altering existing installations. The regulation requires that these practices must be documented by a nominated 'responsible person' within the organisation. The enforcement body can ask for this record to be produced at any time so it is crucial that it is up to date and recorded correctly.

ERA Technology's involvement in projects such as the development of Terminal 5 at Heathrow and the expansion of Kings Cross railway station means that this training course is presented by expert engineers with 'hands-on' experience of providing complex EMC management for fixed installations.

This course will cover the techniques and processes of best EMC engineering practices to ensure that installations are designed to be compliant with the EMC Directive. The identification and mitigation of EMC risks will be covered as well as methods to improve the operational resilience of buildings and installations. This training will also be beneficial for those who are involved in the design and building of special purpose or mission critical facilities.

Your programme

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| <p>08.45 Registration and refreshments</p> <p>09.00 The fundamentals of electromagnetic coupling</p> <ul style="list-style-type: none"> • Definitions • System interactions • Development of emissions and immunity standards • Product and system design • Sources and receptors of disturbance. <p>09.45 EMC Directive requirements</p> <ul style="list-style-type: none"> • Aim of the EMC Directive • Essential articles of the EMC Directive • Routes to compliance - apparatus and installations • Responsibilities and due diligence • EMC regulations • Physical Agents Directive (PAD) • Why EMC in the built environment? <p>10.30 Refreshments</p> <p>10.45 Electromagnetic environments</p> <ul style="list-style-type: none"> • Building external environments • Building internal environments • Risk assessment studies • Zoning and equipment layout • Electromagnetic site surveys. <p>11.30 System level design considerations</p> <ul style="list-style-type: none"> • Applicable standards • Earthing and bonding • Lightning protection • Cabling segregation and separation • Shielding and filtering. | <p>12.15 Questions and answers</p> <p>12.30 Lunch</p> <p>13.15 Equipment selection and demonstration of compliance</p> <ul style="list-style-type: none"> • Specification • Gap analysis and procurement • Equipment hardening and test • Installation inspection. <p>14.00 EMC management</p> <ul style="list-style-type: none"> • EMC management planning • Defining roles and responsibilities • Assurance documentation • Notified body review and auditing • Operating and maintaining the installation. <p>14.45 Refreshments</p> <p>15.00 EMC analysis and modelling</p> <ul style="list-style-type: none"> • Benefits of modelling • Applications and methods • Analytical models and examples • Numerical models and examples. <p>15.45 Questions and answers</p> <p>16.00 Close.</p> |
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ERA Technology Ltd is a UK Government BIS (formerly known as BERR) appointed Notified Body for EMC.

Ever thought about in-company training?
 This course can be delivered at your site. To discuss your training requirements, please call the Events Team on +44 (0)1372 367319.



**David Atkey - EMC Consultant, ERA Technology Ltd**

David specialises in the EMC of complex installations. His experience includes development of cable separation tools for industry, the EMC assessment and management of complex installations, the clearance of equipment for use on aircraft and various other EMC quantitative and qualitative assessments. He has undertaken EMC consultancy for most industry sectors particularly in the areas of defence, the built environment and rail.

**Adam Bullivant - EMC Consultant, ERA Technology Ltd**

Adam has primarily been involved in design consultancy, control planning, measurement investigation, computer modelling and risk assessment work for a range of clients in the UK and abroad. He has also spent a number of years in Singapore to support the development of our EMC consultancy business in the Metro Rail Sector.

Booking form

Please photocopy this form if you wish to register more than one delegate. Send a second person at a discounted price!

Delegate details

Name <small>Dr Mr Mrs Miss</small>
Job Title
Organisation
Address
Postcode
Telephone
Fax
E-mail
VAT number (EU customers only)
<input type="checkbox"/> Please tick if you are happy to receive further information about ERA Technology Ltd via e-mail. It is our policy NOT to supply your details to third parties.

Bookings

I wish to make a firm booking for:

EMC in the Built Environment

26 June 2012 Ref: 31212 11 December 2012 Ref: 31247

Fees*

Fee rate	Fee	VAT@20%	Total	Please tick
Early Booking Rate	£432.00	£86.40	£518.40	
Standard Rate	£480.00	£96.00	£576.00	

*AccessERA subscribers and additional delegates receive a 10% discount on these rates. If you subscribe to AccessERA and would like to use your AccessERA credits to attend, please contact The Events Team on: +44 (0)1372 367319. For more information on booking rates, please go to: <http://shop.era.co.uk>.

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<input type="checkbox"/> Invoice	<input type="checkbox"/> Paid	<input type="checkbox"/> AccessERA credits	
BC12.....	Date.....		

Venue:

Your course will take place at ERA Technology Ltd, Cleeve Road, Leatherhead, Surrey KT22 7SA, UK. It is a 15 minute walk from Leatherhead main-line station. Visitor car-parking is available on-site. A location map and directions are available at: www.era.co.uk/location.

Early booking rates:

Early booking rates are valid up to one calendar month before the date of the course and can only be claimed at the time of booking.

Additional booking rates:

Additional booking rates are applicable to second and subsequent delegates and may only be claimed at the time of booking.

Did you know?

An AccessERA subscription is an excellent way of accessing technical advice and information in the right format at the right time. All AccessERA subscribers receive a 10% discount on the current course price at time of booking when the booking is made directly with the Events Team. To find out more, please call us on: +44 (0)1372 367319 or e-mail: events@era.co.uk.

Ways to book:

- <http://shop.era.co.uk>
Total security is assured and normal booking conditions apply.
- +44 (0)1372 367319 - please be prepared to quote a purchase order number or supply us with credit card details.
- +44 (0)1372 367321*
- The Events Team, ERA Technology Ltd, Cleeve Road, Leatherhead, Surrey KT22 7SA.

* Please note that booking forms received without payment will be considered binding and invoiced automatically.

Enquiries:

Please contact The Events Team by calling: +44 (0)1372 367319 or e-mail: events@era.co.uk.

How to pay:

Payment must be made before attendance at the event and must be made in £ sterling only. Acceptable methods of payment are by cheque (payable to ERA Technology Ltd), credit card or bank transfer. Bank transfers, free of all charges, can be made to ERA Technology Ltd via: HSBC, 9 The Boulevard, Crawley, RH10 1UT; sort code: 40-18-22, account no. 22178095. When paying by bank transfer, please quote the relevant course, reference number and the delegate and company name.

Cancellations and transfers:

Cancellations and transfers must be received in writing to the following address: The Events Team, ERA Technology Ltd -AccessERA, Cleeve Road, Leatherhead, KT22 7SA. Cancellations and transfers received up to the 15th working day prior to the event will be subject to a charge of 20% of the invoiced course fee + VAT or 20% of the AccessERA credits charged. After this 15 day deadline, transfers cannot be accepted and cancellations will be subject to payment in full or 100% of the AccessERA credits charged. Substitutions can be made at any time.

ERA Technology Ltd:

ERA Technology Ltd works at the leading edge of advanced technology consultancy and design. The business provides specialist, high value-added, technology-based services including design and development, testing, assessment and expert advice. For further information visit: www.era.co.uk.

Please tick here if you would prefer not to receive details about future events or services offered by ERA Technology Ltd.

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