



## Edif ERA Training Courses 2017

### Welcome to Edif ERA Training

Edif ERA courses are presented by our own specialist engineers who have many years' experience in their subject areas, gained from working on numerous projects and plant, across all sectors of industry. Training courses can be delivered in either standard or tailored formats to meet your specific requirements. We can also lead the courses at your site, to save you travel costs and time.

Edif ERA has run a regular programme of CPD-certified training courses to help its customers maintain and develop technical excellence. Our training courses provide an authoritative, interactive route to improving your knowledge and expertise. For many of our customers, the programmes have become a fundamental part of their organisations' personnel development plans.

### MARCH 2017

#### 28 Leatherhead

##### Auditing in UKAS accredited laboratories

This highly subscribed course has been training delegates for over 20 years to effectively meet the requirements of the BS EN ISO/IEC 17025 standard as well as how to successfully plan and carry out audits in a UKAS accredited laboratory.

#### 29 Leatherhead **NEW!**

##### Common Safety Method for Risk Evaluation and Assessment

Our interactive one-day training course provides delegates with an overview of the Common Safety Method for Risk Evaluation and Assessment together with practical techniques for its application to UK rail projects.

### APRIL 2017

#### 4 Leatherhead

##### An introduction to IEC 61508

Exploring key concepts essential to achieving functional safety, such as Safety Integrity Levels (SILs) and hazard and risk assessment, this course describes the relationships between all parts of IEC 61508. It ensures that delegates have a full understanding of the requirements and applications of the standard, as well as the design implications and key concepts relating to the achievement of functional safety.

#### 25-26 Cardiff

##### Power system earthing

Encompassing all aspects of earthing, from standards and safety criteria through to earth grid design, fault current distribution and earth resistance measurement and interpretation, this two-day course delivers a comprehensive introduction to the subject. In addition to the theory, the course includes a series of invaluable practical sessions. This course offers a highly interactive, practical and theoretical introduction to the subject.

#### 26 Leatherhead

##### Understanding safety cases: Development, maintenance and your responsibilities

A must for anyone who is involved in the development and management of a safety case or safety case report, this course explains the reasons for a safety case and offers a variety of methods for producing one effectively. A risk assessment and ALARP workshop reinforces the material covered. The course is aimed at all those who have involvement in a safety case, from those responsible for developing and managing one to those required to accept a safety case as a deliverable from a contractor. The course provides managers with the knowledge to recognise if a safety case is complete.

### MAY 2017

#### 16 Leatherhead

##### Introduction to lightning protection

Ideal for those involved in the protection of infrastructure and electrical systems, this course covers both the science behind lightning and the methods by which protection may be achieved. Designing, testing, earthing and bonding techniques as well as lightning standards are explored in this thorough introduction.

#### 17-18 Leatherhead

##### Hazard and risk analysis for safety-related systems

Intensive and interactive, this two-day course, has a strong practical element, covers techniques such as Preliminary Hazards Analysis (PHA) Hazard and Operability Study (HAZOPS), Failure Modes and Effects Analysis (FMEA) as well as safety planning requirements. It is ideal for delegates keen to learn how to optimise operational safety from the design stage. This course explains the techniques for ensuring operational safety.

## JUNE 2017

### 1 Leatherhead

#### Compliance with RoHS and REACH

Experts in RoHS and REACH legislation guide delegates through the legal obligations of these EU Regulations. The course focuses on RoHS compliance and supplier assessment using EN 50581, including a look at where RoHS substances are used. It examines REACH compliance for product manufacturers and suppliers.

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### 27-28 Leatherhead

#### Software safety: Software development for safety-related systems

Techniques are honed and exercised in this two-day course which tackles the analysis of potential safety issues and the creation of safety arguments within the framework of software development for safety-related systems. The course adopts a predominantly civil aviation and defence perspective.

## SEPTEMBER 2017

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### 26 Leatherhead

#### An introduction to electrical cables

One-day course covering the basics of electric cable design, materials used in cables and accessories, power cable accessory design, cable procurement and manufacturing, cable ratings, testing and life assessment. Ideal for those involved in the manufacture, procurement, installation and operation of power cables and accessories

## OCTOBER 2017

### 17 Leatherhead

#### Understanding failure analysis investigation

An extensive introduction to a spectrum of failures ranging from metallic and electronic components to plastics and gas turbines. Attendees discover techniques for analysis via a group exercise and a demonstration of scanning electron microscopy as well as advice on how to fully capitalise on the results from post-failure studies.

## NOVEMBER 2017

### 1-2 Conference - Heathrow

#### Electrical And Electronic Equipment And The Environment 2017: Meeting the technical and regulatory compliance challenges

Globally renowned, Edif ERA's conference attracts leading experts who offer the latest updates on RoHS2, REACH, WEEE, ecodesign and conflict minerals. Last year's presenters included key figures from the European Commission, UK government departments and the European Chemicals Agency. Join the debate on the prevalent critical issues surrounding environmental product regulations and their effect on electrical products, from materials through to design, use and end-of-life. Enhanced by an exhibition, drinks reception and dinner, the conference allows you to relax and network in comfort.



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### In-company training

In-company training for your company – off-the-shelf or customised into a solution that fits in with your requirements. You choose when and where you wish the training to take place – at your organisation in the UK or overseas, a venue close to you or at Edif ERA's training centre.



### ASME and API certified courses

Since the acquisition of Matthews Engineering Training in August 2015, Edif ERA is now a market leader in the provision of ASME and API inspector training courses. These courses are aimed at individuals and small contractors and they can easily be tailored to meet the in-house needs of large corporate clients. For more information, please go to; [www.edifgroup.com](http://www.edifgroup.com).



To purchase a place or for further information

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