



February 2012

21 Safe product design - a practical and effective approach

This course will highlight the essential principles of product safety, while showing that safety and conformance can be adapted into the design budget without causing additional expenditure or concern. Case studies will be used to demonstrate examples from industry best practice, illustrating key learning points that the delegates need to draw upon.

28 Understanding failure analysis investigation

Exploring the concept of failure analysis investigation with seven experts from varied fields, their differing perspectives providing delegates with a sound, basic knowledge of failure investigation practices; allowing them to manage the repercussions of failure and mitigate the potential financial impact for their companies.

29 Understanding the EMF directive

With the Physical Agents Directive coming into force in April 2012, it is immensely important for companies to ensure they will be compliant in time for the event. As updates to the directive continue to be released, this half-day course keeps delegates up-to-date with the latest version of the directive.

March 2012

6 Introduction to lightning protection

This one day course provides delegates with an overview of the concept of lightning, starting with the physics behind lightning before moving on to the standards involved with lightning protection. Delegates are offered advice on how to ensure their structures remain protected via the application of earthing and bonding techniques and how this protection can be maintained with effective design and test techniques.

13- Introduction to electrical circuit protection

14 Through the use of their own software, ERACS, presenters from ERA assist delegates in gaining an understanding of the importance of electrical circuit protection systems in helping to safeguard a stable and reliable electricity supply; which is essential for the smooth running of business. The two-day course offers delegates a methodology for selecting settings which can be applied to their own designs.

15 Complying with the Energy Related Products (ErP) Directive

The extension of the eco-design directive to encompass all energy related products is covered in this one-day course which walks delegates through changes in the directive and how they can respond effectively to ensure their company is compliant. A "Product Clinic" allows delegates to discuss both their specific products and how the Directive might directly affect them with the presenters.

20- Hazard and risk analysis for safety-related systems

21 Covering Preliminary Hazard and Accident analysis (PHA), Hazard and Operability Study (HAZOPS), Fault Tree Analysis (FTA) and Failure Modes and Effects Analysis (FMEA), this two-day course offers an introduction into how to identify and analyse accidents associated with the functional safety of complex systems.

April 2012

17 An introduction to IEC 61508:2010 edition

Offering an overview of all parts of the standard and how they correlate, this course explains hazard and risk assessment including Safety Integrity Levels (SILS) and the key concepts in achieving functional safety. The course has been revised to reflect the second edition of the standard.

18- Software safety: software development for safety-related systems

19 This two-day course helps delegates learn not only how to formulate software safety arguments for their systems, but also how to analyse potential software safety problems. The course looks at Programmable Logic Devices (PLDs), Commercial-Off-The-Shelf (COTS) software and Software Of Unknown Pedigree (SOUP) in safety systems.

24 RoHS in practice: how to maintain and demonstrate compliance to authorities and customers

This one-day, practical course will study the RoHS recast, providing manufacturers with the skills required to understand how to fully comply with the national RoHS regulations. Exercises help delegates put what they have learnt into practice.

25 Regulatory compliance management

This one-day course is designed to help delegates understand what their company's responsibilities are when it comes to remaining compliant with appropriate European legislation. The course guides delegates through various directives ranging from the Low Voltage Directive to CE Marking and provides a logical approach to managing them.

26 Complex hardware development for aircraft systems using RTCA DO-254/ EUROCAE ED-80

This one-day course studies the processes required to integrate design assurance into the development of systems which include complex electronic hardware. It also provides certification strategies and guidance. The course assumes only a basic background in software or electronic systems.

May 2012

1- Introduction to power system analysis studies

3 This three-day course is designed to provide delegates with an introduction to system studies and their usage in designing or determining operational performance of new or existing electrical systems. The training can also assist those who may be required to specify and control studies being conducted by a third party. ERA Technology's own software ERACS is used during the course.

1 UKAS accreditation for laboratory staff

This one-day course studies the requirements of the United Kingdom Accreditation Service and ISO 17025, putting them in the context of your business environment. The course is aimed for delegates working at the 'coal face' of making measurements and Laboratory and Quality Managers involved in ISO 17025 compliance.

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