



# 2019 RINA Industry Training

RINA courses are presented by our own specialist engineers with many years' experience and they can be delivered in either standard or tailored formats to meet your specific requirements. RINA offers a regular programme of CPD certified training courses to help its customers maintain and develop technical excellence. Our training courses provide an authoritative and interactive route to improving your knowledge and expertise.



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## HAZARDOUS CHEMICALS IN HARDWARE PRODUCTS - A practical approach to compliance

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**15 May 2019**  
Leatherhead, Surrey

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 and also on where RoHS substances are used.

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## INTRODUCTION TO LIGHTNING PROTECTION

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**23 May 2019**  
Leatherhead, Surrey

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 induction.

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## INTRODUCTION TO EARTHING DESIGN

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**19 June 2019**  
Leatherhead, Surrey

This course introduces delegates to basic earthing concepts to lead them through a typical earthing design for a high-voltage installation. It aims to provide an overview of this critical subject for those involved with the design, construction and maintenance of high-voltage installations.

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## UNDERSTANDING SAFETY CASES: Development, maintenance and your responsibilities

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**27 June 2019**  
Leatherhead, Surrey

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 reinforce 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.

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## INTRODUCTION TO EARTHING, LIGHTNING PROTECTION AND EMC REQUIREMENTS FOR A BUILDING

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**10 September 2019**  
Leatherhead, Surrey

The subject of earthing, lightning protection and EMC are critical aspects of building design although they are often misunderstood. This one-day course demystifies the three areas covering the main technical requirements and design aspects, and how these can be managed to achieve and coordinate design.

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

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**18/19 September 2019**  
Leatherhead, Surrey

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.

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## POWER SYSTEM EARTHING

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**25/26 September 2019**  
Leatherhead, Surrey

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 theoretical content, the course includes a series of invaluable practical sessions.

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## UNDERSTANDING FAILURE ANALYSIS INVESTIGATION

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**7 November 2019**  
Leatherhead, Surrey

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.

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## ELECTRICAL AND ELECTRONIC EQUIPMENT AND THE ENVIRONMENT 2019 CONFERENCE

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**13/14 November 2019**  
Venue: Radisson Blu  
Edwardian, Heathrow

This globally renowned two-day event covers all environment related regulatory compliance issues which apply to hardware products. For over 20 years, the conference has been presenting the latest on RoHS2, REACH, WEEE, ecodesign and conflict minerals. Our invited speaker panel is drawn from policy makers in the EU and UK governments and experts from industry, consumer electronics, defence and law enforcement. Join the debate on the prevalent critical issues surrounding environmental product regulation and their effect on electrical products, from materials through to design, use and end-of-life.

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## HAZARD AND RISK ANALYSIS FOR SAFETY-RELATED SYSTEMS

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**20/21 November 2019**  
Leatherhead Surrey

Intensive and interactive, this two-day course has a strong practical element, covering techniques such as Preliminary Hazards Analysis (PHA), Hazard and Operability Study (HAZOPS), Failure Modes and Effect Analysis (FMEA) as well as safety planning requirements. This course explains the techniques for ensuring operational safety.

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Courses take place in Leatherhead and are held at the RINA office.

### Interested in in-company training?

RINA are able to run courses at your site, tailored to your specific requirements, to save you travel costs and time. Contact the training team for more information.

