

26-27 March 2014 (Leatherhead), 1-2 October 2014 (Waddington)

Hazard and risk identification, management, analysis and mitigation are all disciplines employed to ensure the operational safety of complex systems performing safety-related functions. When implemented in a detailed safety life cycle that starts with the design stage, these methods can ensure smooth operation and compliance with safety legislation. Failure to meet the legislative and regulatory safety requirements concerned with these systems can result in heavy penalties which are both costly and counter-productive to business. This course explains the techniques for ensuring operational safety as well as covering safety planning requirements. Interactive workshops allow delegates to put into practice the techniques learnt.

Your Programme**Day One****08.45** Registration and refreshments**09.00** Introduction**Basic concepts and definitions**

- Definitions of hazard, accident, risk and safety.

Basic concepts exercise**Introduction to risk**

- History and legal background
- Tolerability
- Public perception and acceptance.

Refreshments

The safety life cycle

- Steps in the safety life cycle
- Relation to the development life cycle
- Safety planning.

Safety planning exercise**12.45** Lunch**Preliminary Hazard Analysis (PHA)**

- Hazard and accident identification and analysis
- Fixing the system boundary and scoping the analysis
- PHA techniques
- Who should get involved?
- Introducing accident sequences.

PHA exercise

Refreshments

Safety requirements

- Understanding the different safety requirements
- Safety functions
- Safety integrity
- Safety targets
- Determination of requirements.

Summary**17.00** Close.**Day Two****08.45** Refreshments**09.00** Overview of day two**Risk assessment**

- Risk estimation techniques
- Risk matrix
- Limitations and alternatives.

Refreshments

Risk assessment exercise**13.15** Lunch**Hazard management**

- Assessing risks through the safety life cycle
- Using a hazard log to manage risk
- Problems with hazard logs
- Hazard closure
- Incident reporting and corrective action tracking.

Refreshments

Safety arguments and safety cases

- Basis of a safety argument
- Preparing a safety case document
- The implications of the Haddon-Cave report.

Summary and questions**16.00** Close.**Related Courses**Software safety: Software development for
safety-related systems

2-3 April 2014 and 2-3 September 2014

Understanding safety cases: Development, maintenance
and your responsibilities

23 April 2014 and 17 September 2014

To place a booking, please contact the Events Team
on 01372 367319 or via e-mail to events@era.co.uk**Ever thought about in-company training?**

ERA can deliver this course at your site, either in standard public format, or as a bespoke option tailored to your organisation's individual specifications. To discuss your training requirements, please call the Events Team on +44 (0)1372 367319.



Your Speakers



David Annas
Principal Safety Engineer
ERA Technology



Colin Barnett
Principal Safety Engineer
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Simon Hughes
Principal Safety Consultant
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Andrew Armstrong
Principal Safety Consultant
ERA Technology



Simon Goodchild
Principal Safety Engineer
ERA Technology

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 Dr Mr Mrs Miss
Job title
Organisation
Address
Postcode
Telephone
Fax
E-mail
VAT Number (EU customers only)

Bookings

I wish to make a firm booking for:

Hazard and Risk Analysis for Safety-Related Systems

☐ 26-27 March 2014 (Leatherhead) ☐ 1-2 October 2014 (Waddington)

Fees*

Fee rate	Fee	VAT@20%†	Total	Please Tick
Early booking rate	£720.00	£144.00	£864.00	
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Venue:

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Enquiries:

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