

Hazard and risk analysis for Safety-related systems

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

I3.I5 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.

David Annas Principal Safety Engineer Edif ERA

Andrew Armstrong Principal Safety Consultant Edif ERA

Your Speakers

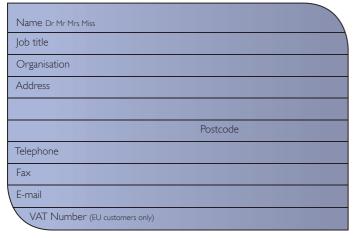


Colin Barnett Principal Safety Engineer Edif ERA

Simon Goodchild Principal Safety Engine Edif ERA

Booking Form

Delegate details



Bookings

I wish to make a firm booking for:

Hazard and Risk Analysis for Safety-Related Systems

21-22 October 2015 (Leatherhead)

Fees*

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