Planning and managing the safety lifecycle for Defence Standard 00-56 Issue 4

28th-30th October 2008, London
10th-12th February 2009, London

Adelard is pleased to announce this course which presents the requirements of Defence Standard 00-56 issue 4.

Part 1 (days 1 and 2) will provide attendees with the capability to develop safety processes, identify arguments and generate supporting evidence to comply with the standard.

Part 2 (optional — day 3) will build on the first two days to train a limited number of attendees in hands-on use of Adelard's Assurance and Safety Case Environment (ASCE) in the construction of DefStan 00-56 compliant safety cases, and the development and presentation of safety case reports. This work will be based on material presented and developed during Part 1.

Part 1 is limited to 16 attendees; Part 2 to 8 attendees.

(Part 1 attendance is a requirement for attendance at Part 2; however Part 1 may be attended on its own)

Who should attend

- IPT leaders, safety managers and other duty holders utilising the standard in MoD contracts.
- Contractors/suppliers who have a requirement to deliver or bid against the standard.
- Safety specialists and consultants who plan to develop 00-56 issue 4 compliant safety cases.
- Independent Safety Assessors who plan to assess a product or project against the standard.

Prerequisites

- General safety familiarity.
- Previous safety case development or assessment experience is desirable.
- Part 2 requires some basic familiarity with the ASCE tool — an evaluation version and hardcopy tutorial material will be provided in advance to those who have not used it before.

Learning outcomes

- Familiarity with good practice in safety case structure, organisation and lifecycle.
- Awareness of regulatory requirements for safety cases and safety management.
- Awareness of requirements of 00-56 including guidance on software.
- Practical experience of safety case construction and techniques for developing supporting evidence.

Course tutors

These will include Dr Tim Clement, Dr Fan Ye, Mr Luke Emmet, and Dr George Cleland. The tutors have a wide-ranging background including systems and safety analysis, safety case development and assessment, standards development and interpretation, and human factors.

Costs

Part 1: £850

Parts 1 and 2: £1,350

This includes all course notes, refreshments, and a course dinner on the evening of the first day.

Prices exclude VAT.

Location

Part 1 will take place in The Old Sessions House, Clerkenwell Green, London (Tube: Farringdon).

Part 2 will take place at Adelard's premises on St John's Street, London (Tube: Farringdon, Angel, Barbican). See address below.

To register

Complete the form overleaf supplying either credit card details or a company purchase order, and post it the address shown in the page footer.

Alternatively call +44 20 7490 9450 with a PO number/credit card details. Places will be allocated on a first-come-first-served basis.

Part 1

Session 1: Introduction to the Def Stan 00-56 Issue 4

- Overview: the requirements of the standard and supporting guidance.
- The safety lifecycle and process model.
- Relationship to the MoD CADMID project lifecycle.
- Roles, stakeholders and responsibilities: the legislative framework.
- Putting the safety case at centre stage.
- Implications for safety project planning and management.
- Working with stakeholders.
- Customers, ISA, safety offices, regulators.

Session 2: Establishing the safety case — determining system safety requirements

- Collaborative analysis of the system in its operating context.
- Starting the risk management process.
- Preliminary hazard analysis, risk analysis and risk assessment.
- Determining tolerable levels of risk.
- Identifying system and equipment safety requirements.
- Demonstrating effective hazard analysis and safety management.
- The role of the hazard log.

Session 3: Developing the safety case — demonstrating equipment safety

- Development process model and activities.
- Propagating safety requirements through the design.
- Management of derived safety requirements.
- The treatment of systematic failure.
- New approach to safety integrity requirements.
- Safety arguments.
- Sources of evidence and argument strategies.
- Demonstrating that risks are ALARP.
- Gaining confidence in evidence.
- Justifying hazard management via the hazard log.
- Approaches to software and programmable systems.
- Managing legacy systems, off-the-shelf systems and COTS systems integration.
- Integration with sub-system and super-system safety cases.

Session 4: Establishing system safety into service and in service — the safety case in operation

- Procedures and training as contributions to safety.
- Management of operational limitations.
- Operational validation of safety case assumptions.
- Maintaining safety in a changing environment.
- Safety at the end of service life.

Session 5: Conclusions

- Overall themes.
- Safety case reports — ensuring adequate and appropriate reports for relevant stakeholders.
- Wrap up — open technical discussion.

Part 2

Session 1: Building safety case arguments within a managed safety lifecycle

- Assembling safety argument components.
- Use of ASCE in the development of structured safety cases using graphical argumentation.
- Overview of Goal Structuring Notation and Claims-Argument-Evidence.
- Linking to safety case evidence and integrating with other tools.
- Safety document hierarchies and dependencies.
- Supporting safety lifecycle activities.
- Mapping Part 1 results to overall safety case lifecycle.
- Shaping the safety case through the project lifecycle — use of models and templates.
- Supporting safety lifecycle review and assurance activities.
- Approaches to generating safety case reports.

Session 2: Safety case development workshop

- Tricks of the trade — planning tactics to make life simpler across the lifecycle.
- Traceability and versioning across evolving heterogeneous safety documentation.
- Group exercise.
- Discussion of results.

Please reserve a place for me at this course

I would like to attend (delete as appropriate):

Dates: 28-30 Oct 2008 / 10-12 Feb 2009

Part 1 only / Parts 1 & 2

Name .....

Organisation .....

Address .....

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Tel .....

Email .....

I enclose a company PO/cheque for £998.75 (£850 + VAT) / £1,586.25 (£1,350 + VAT)* ☐

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