



Verification and Validation of Models and Simulations



SE Validation Limited and Adelard are pleased to announce this course which presents participants with understanding and insight into current UK and international approaches to the verification, validation and accreditation (VV&A) of computer models, simulations and synthetic environments used in support of capability and system engineering programmes.

Who Should Attend:

- System engineers and architects;
- Modellers and simulators;
- Validation and verification agents;
- Contractors/suppliers who have a requirements and acceptance responsibility.

Prerequisites:

- Modelling and Simulation awareness;
- System Engineering awareness.

Learning outcomes:

- Introduction and explanation of the concepts of verification and validation;
- Introduction and explanation of the methods and implications of acceptance;
- Awareness of the scope of national and international efforts to develop standards;
- Hands-on use of SimulASCE tool for graphical V&V argument presentation.

Costs:

£350 for the day (£411.25 inc VAT), inclusive of all course notes, refreshments and course lunch.

Location:

The Recorder's Room, Old Session House, Clerkenwell Green, EC1R 0NA (Nearest tube = Farringdon Station; Thameslink, Circle & Metropolitan). See www.sessionshouse.com

Date:

Tuesday October 11th 2005

To register:

Complete the form below supplying either a company cheque or a company purchase order. Alternatively call +44 1722 502674 with your details. Places are limited to 15 only and will be allocated on a first-come basis.

Tutors:

These will include Mr Colin Brain and Mr Richard Maguire of SE Validation Ltd. With more than 30 years' combined experience, the presenters will guide those attending this one day tutorial through this complex and challenging subject. Delegates will also receive a free copy of the latest publication from SE Validation titled "Introduction to Simulation Validation" by Colin Brain (ISBN 0-9550107-1-3).



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Using presentations and workshops, the presenters Colin Brain and Richard Maguire of specialists SE Validation Limited will provide an initial introduction for newcomers to this challenging field. This will be followed by a deeper exploration of the scope and approaches of better and best practice in the field of VV&A of Modelling and Simulation (M&S).

Session 1: Concepts of Modelling, Simulation and V&V – part 1.

Definitions of terms; introduction to modelling and simulation processes; types of simulations; benefits and risks of 'believable but wrong'; applications and problem domains.

Session 2: Concepts of Modelling, Simulation and V&V – part 2.

Concepts of requirements, referents, specifications and conceptual models; the role of data and output.

Session 3: Requirements and Planning for V&V.

Motivation for V&V; risk and impact; forward planning for V&V; evidence and documentation; tool use and GSN/CAE.

Session 4: Standards and Approaches for V&V.

UK current practice summary; International Test Operating Procedure (ITOP); Region Europe Verification, Validation & Accreditation (REVVA); V&V overlay to the FEDEP process.

Session 5: Conducting comparisons.

The concepts of Acceptance and Accreditation in M&S; Selection and derivation of referents; recording project V&V decisions.

Session 6: Introduction and use of SimulASCE.

Many scientists in the field are already aware of GSN tools – this part of the tutorial introduces a new schema specifically designed for complex argument presentation for V&V purposes. Delegates will be given an introduction to the new schema through a dedicated exercise involving hands-on tool use.

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Please reserve a place for me at this course on October 11.

Name:

Organisation:

Address:

Phone:

Email:

I enclose a company PO/cheque payable to SE Validation Ltd for £411.25 (£350 + VAT)

or: Please send this section to;

**SE Validation Limited,
10 College Street
Salisbury
SP1 3AL**