



A 3-day Managing Test and Acceptance Course

Course Description

Managing Test and Acceptance concerns all those verification and validation (V&V) activities that need to be performed during the design-thru-disposal lifecycle of complex products and services. This module will provide the delegates with an understanding of the Systems Approach to V&V as well as specific instruction in planning and executing V&V activities including acceptance and test.

Test and Acceptance should be designed and managed like any other critical system aspect. The process should be started as early as possible and is an integral part of Systems Engineering. It is Test and Acceptance which allows customer acceptance of a delivered system, with evidence provided of system performance, risk mitigation and safe system operation.

Performing Test and Acceptance correctly is reliant not only on skills and knowledge but on the quality of the information provided to prove/check against. Education and training are necessary to assess the provided information quality, and to provide a correctly tailored set of Test and Acceptance activities that allow customer acceptance, leading to getting off contract and eventually payment. This course is about educating and training participants in how to identify, plan, perform and gather evidence from Test and Acceptance activities within the timescales of a project lifecycle. Simply; its purpose is to teach people how to design and create a better design proving system.

Who Should Attend?

This course applies equally to the proving of product-based or to service/process-based systems. The course is therefore suitable for all personnel involved in the design-proving and customer acceptance of any complex system. It is specifically aimed at those people who wish to practice or would like to practice a systems approach to verification and validation.

Benefits to the Individual and Business

During an intensive three days of teaching and practical 'hands on' exercises, participants will be challenged to develop the skills and mind-set that can be applied to any proving system design irrespective of type, scale or context.

At the end of the course participants will:

- have an understanding of Managing Test and Acceptance
- understand the critical role of requirements in Managing Test and Acceptance
- be introduced to a matrix tool supporting the whole project lifecycle
- be able to identify acceptance stakeholders and their requirements
- be able to determine V&V methods
- be able to analyse acceptance stakeholder requirements and translate these into V&V requirements
- be able to write V&V requirements
- be able to specify and design tests
- be able to perform and report tests
- be able to generate the necessary evidence to get off contract.

Learning Approach

The learning approach is based on the Kolb learning cycle with a significant proportion of the course set aside for exercises to reinforce the learning. Indeed, many of the small group exercises involve a case study that provides a practical focus for the course and enables the delegates to practise the methodology and tools presented.

Course Delivery

The course can be delivered to up to 20 participants.

Course Agenda

	Day 1	Day 2	Day 3
0830	Aims, Objectives and Agenda Delegate Expectations	Planning V&V Activity	
0930	Managing Test and Acceptance: A Systems Approach to V&V	Writing V&V Requirements	Performing and Reporting Tests
1030		Designing The V&V System	V&V Through Design Reviews
1130		Specifying and Designing Tests	
1230	Matrix Diagram Quality Function Deployment		
1300	Lunch	Lunch	Lunch
1400	Matrix Diagram Quality Function Deployment	Design of Experiments	V&V Through Design Reviews
1500			Getting Off Contract
1600			Managing V&V Evidence
1700			

Course Costs

The 3-day Managing Test and Acceptance course is very intensive and is delivered by a single tutor/consultant.

The cost of delivering the 3-day course, excluding delivery tutor accommodation and expenses, but including all courseware, is £4,500. VAT will apply at the prevailing rate.

The course can be tailored to suit individual customer's engineering lifecycle and review processes.

More Information and Contact Details

For more information about the 3-day Managing Test and Acceptance course, or any of our other Systems Engineering courses please contact Dr Stuart Burge on +44 (0) 7803 131614 or sburge@burgehugheswalsh.co.uk