



CRaG Systems Modelling Training and Consultancy

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UML For Test Development Training Course - 2 Days

This UML training course is aimed at system and sub-system test developers who want understand how to create test scripts from UML based system documentation. The course provides an in-depth technical study of system models based on the Unified Modelling Language (UML) v2.5. The techniques learned are applicable to the testing of systems using conventional client-server architectures, those to be deployed as web applications, and real-time or embedded systems. Each technique is taught to the level required for competence on a real project and understanding is tested and improved with exercises. Students spend a significant part of the training course applying the techniques to a real-world project example.

Delegates will learn:

- The basics and the necessary detail of the Unified Modelling Language
- The basics and necessary detail of Object Orientation
- How to develop a test strategy for user acceptance, system level, component level, integration and regression testing
- To understand a use case diagram and use case description
- How to develop a system level test script from a use case
- To understand a detailed model of the system's data using classes and their relationships
- How to develop scripts to test the systems stored data
- To understand a sequence diagram which details the functionality of a use case
- How to add detail to a test script from a sequence diagram
- To understand state machine diagrams and the way in which they define the dynamics of a system
- How to develop scripts that test the state dependent behaviour of the system

Suitable for:



System Analysts, Test Developers, Test Managers and System Developers with at least 2 years experience.

This course is not suitable for those seeking certification as a step towards a qualification. See the Certification Policy for a detailed discussion.

Course Logistics:



Course attendance is normally limited to 12 students. Courses start at 9.30am on the first day, 9.00am on subsequent days and finish at 5.00pm each day. Students normally use a computer for the exercises, but these can be performed on paper if required. For a discussion on using a UML modelling tool please see Modelling Tool Use on Courses. Printed course manuals for each student with copies of all presentations, exercises and solutions are provided.

On-Site (In-House) Courses:



The client is expected to provide an appropriate venue, refreshments, XGA/WXGA projector and screen, whiteboard or flipchart and at least one computer per two students loaded with a suitable UML modelling tool, unless exercises are to be performed on paper. For a full discussion of on-site course issues please see On-Site Course Logistics.

Scheduled Public Courses:



CRaG Systems no longer provide scheduled public training. However, we continue to provide on-site (in-house) training for any number of students with special discounts for small classes. You will find our pricing competitive with most public courses for just 2 or 3 students. Please use the On-Site Course Pricing page to get a firm, downloadable quotation for on-site training.

Pricing:



On-site (in-house) course pricing is available from the On-Site Course Price Calculator page. For consultancy pricing please see the On-Site Consultancy Price Calculator.

Training Course Outline

Day 1	Day 2
<p>Introduction</p> <p>People - Course Structure - Unified Modelling Language - Overview of Test Strategies - Using UML For System Test Development - Using UML for Component Test Development</p> <p>Developing System Test Scripts From Use Cases</p> <p>System Use Cases and Actors - Primary Use Cases and the Basic Course - Reading Use Case Descriptions - Sub-flows and Alternate Flows - 'Include' and 'Extend' Relationships - Script Structure - Example Scripts</p> <p>Basic System Testing Workshop</p> <p>Data Model Testing From Class Diagrams</p> <p>What is an Object? - Classes and Objects - Attributes - Operations and Methods - Associations and Links - Navigability and Naming - Multiplicity and Other Adornments - Association Classes - Aggregation and Composition - Strategies for Testing - Example Scripts</p>	<p>Stored Data Testing Workshop</p> <p>Interaction Model Testing From Sequence Diagrams</p> <p>Interactions, Messages, Operations and Methods - Sequence Diagrams - Selection and Iteration - Activation - Communication Diagrams - Strategies for Testing - Example Scripts</p> <p>Interaction Model Testing Workshop</p> <p>State Model Testing From State Machine Diagrams</p> <p>The Meaning of the State Model - States and Transitions - Events and Conditions - Actions and Activities - Consistency with Other Diagrams - Strategies for Testing - Example Scripts</p> <p>State Model Testing Workshop</p>

Should the content of the available UML training courses not fit your exact requirements, then CRaG Systems can create a custom course for you. Please either email or call us to discuss your particular needs.

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