



UML Training Courses from CRaG Systems

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Business Process and System Requirements Definition using UML and Use Cases - Training Course - 2 Days

This UML training course teaches the use of the Unified Modelling Language v2.3 for business process modelling and use cases for detailed system requirements definition within the context of a [model-driven software development process](#). Industry best practice is taught for business process modelling and system use case modelling at every appropriate level of abstraction. The strict approach ensures that the results satisfy the needs of both technical and non-technical stakeholders. The resulting models are traceable from individual elements of the business process through to each primitive system function. The techniques are taught to the level required for competence on a real project. Understanding is tested and improved with exercises based on a real-world project example either [using a suitable UML modelling tool](#) or on paper.

Delegates will learn:

- The basics and the necessary detail of the Unified Modelling Language for business modelling
- How to model a business process at multiple levels of abstraction using a hierarchy of UML activity diagrams (flow charts)
- How to integrate business modelling techniques into a conventional approach to project documentation
- How to map a business model into a system requirements model using actors, use cases and classes such that each element is traceable from one model to the other
- How to create a first cut overview of functional requirements with actors and use cases on a use case diagram
- How to model active and passive actors and actors that are systems not people
- How to map requirements across a 'system of systems'
- How to write an effective use case description in a way that satisfies both non-technical and technical stakeholders
- How to specify the flow of events as a basic flow and alternate flows
- How to restructure the use case diagram to handle complex relationships between use cases without bloating the use case model
- How to integrate the use case model with non-functional requirements, data requirements, business rules and screen prototyping
- How a use case driven approach to requirements gathering improves estimation, project planning, test development and traceability

Suitable for:

Business Analysts, Business Consultants, Business Process Engineers, System Analysts and Project Managers 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 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:

This course is currently not available as scheduled public training. Please see the [Scheduled Public Courses](#) page for available courses.

Pricing:

On-site (in-house) course pricing is available from the [On-Site Course Price Calculator](#) page. Public course pricing is available on the [Public UML Training Courses in London](#) page. For consultancy pricing please see the [On-Site Consultancy Price Calculator](#).

Training Course Outline

Day 1	Day 2
<p>Introduction</p> <p>Logistics - People - Course Structure - Unified Modelling Language - Business Process Modelling - System Use Cases - An Incremental Process for Modelling</p>	<p>Specifying Functional Requirements with Use Cases</p> <p>System Use Cases and Actors - Primitive Use Cases and the Basic Flow - Writing Effective Use Case Descriptions - Writing Sub-flows and Alternate Flows - 'Include' and 'Extend' Relationships - Modelling Browser-Based Applications <i>System Use Case Workshop</i></p>
<p>Modelling Process Flow</p> <p>Writing a Textual Description - Activity Diagrams - Activities and Control Flows - Conditions - Selection and Iteration - Swimlanes - Hierarchy and Concurrency - Modelling Primitive Process Steps <i>Modelling Process Flow Workshop</i></p>	<p>Requirements Gathering</p> <p>Collecting Requirements Information - Mapping from the Business Model - Proof of Concept Prototypes - Requirements Documents - Estimating and Traceability - Incremental Development - Gaining Agreement <i>Requirements Gathering Workshop</i></p>
<p>Mapping into System Requirements</p> <p>Business versus System Use Cases - 'Mapping' Actors - Mapping Activities and Swimlanes - Mapping into a System of Systems <i>Mapping Workshop</i></p>	

Should the content of this UML and Use Cases training course 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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