



CRaG Systems Modelling Training and Consultancy

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Business Process Mapping and System Requirements using BPMN and Use Cases Training Course - 3 Days

This BPMN training course teaches the use of the Business Process Modelling Notation v2.0 for business process analysis, mapping and modelling and system requirements definition with use cases within the context of a business process management (BPM), improvement or re-engineering strategy. Industry best practice is taught for business process modelling and system use case modelling at every appropriate level of abstraction. This approach ensures that the results satisfy the needs of both technical and non-technical stakeholders.

The models are traceable from individual elements of the business process through to each primitive system function. Each technique is taught to the level required for competence on a real project. Understanding is tested with exercises based on a real-world project example either using Sparx Systems Enterprise Architect, another suitable BPMN modelling tool or on paper.

Delegates will learn:

- The basics and the necessary detail of the Business Process Modelling Notation (BPMN)
- How to map business process flow on Business Process Diagrams (BPDs) using events, activities, gateways, flows, pools and lanes
- How to map private, public and collaboration processes
- How to structure the business process model using collaboration, hierarchy and concurrency
- How to map primitive process steps and business rules
- How and when to use advanced events, activities, gateways, objects and artefacts
- How to model business data on class diagrams (non-BPMN)
- How to integrate business mapping techniques into a conventional approach to project documentation
- How to map a business process model into a system requirements model 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 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 Consultants, Business Analysts, Business Process Engineers, Requirements Gatherers, 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 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 BPMN/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 BPMN/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>Logistics - People - Modelling - Business Process Modelling Notation (BPMN) - Use Cases - An Incremental Process for Modelling</p> <p>Mapping Process Flow</p> <p>Business Process Diagrams (BPD) - Private Processes - Start and End Events - Activities - Sequence Flows - Exclusive Gateways - Intermediate Events - Public Processes - Pools and Lanes - Message Flows</p> <p>Mapping Process Flow Workshop</p> <p>Mapping Collaboration, Hierarchy and Concurrency</p> <p>Collaboration Processes - Hierarchy using Sub-Processes and Call Activities - Concurrency with Parallel Gateways - Modelling Process Steps as Tasks - Choosing a Consistent Level of Abstraction</p> <p>Collaboration, Hierarchy and Concurrency Workshop</p>	<p>Advanced Process Mapping</p> <p>Advanced Event Definitions - Event-Based, Inclusive and Complex Gateways - Uncontrolled, Conditional and Default Flows - Normal and Exception Flows - Event, Transaction and Ad-Hoc Sub-Processes - Looping, Multiple Instance and Compensation Activities - Data Objects and Associations</p> <p>Advanced Process Mapping Workshop</p> <p>Modelling Business Data</p> <p>The Conceptual Data Model - Finding Business Entities - Business Entity Relationships - Multiplicity (Cardinality) - Business Entity Attributes</p> <p>Modelling Business Data Workshop</p> <p>Mapping into System Requirements</p> <p>Defining User-Driven and Automated System Tasks - Reorganising into Human versus System Pools - Mapping into Use Case Diagrams</p> <p>Mapping into System Requirements Workshop</p>

Day 3

Specifying Functional Requirements with Use Cases

System Use Cases and Actors - Primitive Use Cases -
Use Case Diagrams - The Basic Flow - Writing
Effective Use Case Descriptions - Writing Sub-flows
and Alternate Flows - 'Include' and 'Extend'
Relationships - Modelling Browser-Based Applications

System Use Case Workshop

Requirements Gathering

Collecting Requirements Information - Proof of
Concept Prototypes - Requirements Documents -
Estimating and Traceability - Incremental Development

Should the content of the available BPMN or BPMN/UML 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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