



**Enterprise Computing Solutions - Education Services**

## **TRAINING OFFERING**

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# Mastering MBSE with SysML and IBM Rational Rhapsody 8.3.1

CODE:	LENGTH:	PRICE:
U4144V2	32 Hours (4 days)	£2,380.00

## Description

This 4 day instructor led course will provide deep tool-based knowledge in the practical aspects of effectively using SysML and IBM Rational Rhapsody in a team-based environment.

## Objectives

To understand the tools and processes of effectively utilizing SysML and IBM Rational Rhapsody in a team based environment

## Audience

Systems and/or Software Engineers using Rhapsody

## Prerequisites

Students should have a basic understanding of systems engineering and/or requirements management

## Programme

Understanding origins and objectives of OMG SysML and relationship with UML. • Overview the different diagrams in SysML and how they're used to exchange information about requirements and architectures.

- Exploration of use case modelling and behavioural modelling with use case diagrams, activity diagrams, sequence diagrams and state-machine diagrams.
- Appreciation of how set-up and use tool effectively with profiles and properties.
- How to build models with use cases and concept of operations modeling.
- Hands-on building SysML models with Rhapsody from scratch, including properties and profiles.
- Understanding the relationship between models and requirements, including requirements diagrams, matrices and tables.
- Understand Rhapsody's integrations with requirements managed in external tools.
- Activity diagram modelling with control flow to define behaviour and traceability to requirements.
- (Optional) Overview of building executable black box system models using IBM Rational Rhapsody.
- Understanding structural modelling with block definition diagrams and internal block diagrams • Sequence diagram modelling.
- State-machine diagram modelling.
- Understanding difference between port types, proxy vs standard ports, old vs new pros and cons
- An appreciation of building executable white box system models using IBM Rational Rhapsody.

## Session Dates

On request. Please [Contact Us](#)

## Additional Information

[This training is also available as onsite training. Please contact us to find out more.](#)