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beach**
TRAINING

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Systems Modelling Techniques using UML

Duration: 3 days
Price: £1,225 + vat

Prerequisites

There are no prerequisites for this course

ISEB Examination

This Systems Modelling Techniques using UML course prepares participants to sit a one-hour, open book, examination leading to the certificate in Systems Modelling Techniques offered by the Information Systems Examinations Board (ISEB). This certificate is a core certificate in the ISEB diploma in Solution Development and is also an optional certificate in the ISEB diploma in Business Analysis

*In association with
Metadata Training*

The Systems Modelling Techniques using UML training course is designed to be both practical and participative. Theoretical concepts are introduced and are then reinforced through practical exercises where participants can apply the skills and techniques of analysis in a realistic project simulation.

Objectives

At the end of this Systems Modelling Techniques using UML training course participants will be able to:

- Define the need for modelling and modelling techniques
- Explain why it is important to model system requirements from different perspectives
- Develop use case diagrams with supporting use case descriptions
- Develop analysis class models with supporting documentation
- Develop a sequence diagram
- Develop an activity diagram to model the user interface
- Evaluate selected models against business objectives and system requirements
- Describe how the products of analysis feed into the design and development of a system

Course Content

Systems modelling

- The need for modelling
- Models of the Unified Modelling Language (UML)
- Interaction of selected UML models
- Validating and verifying models

Use Case modelling

- Use Case diagrams – concepts and notation
- <<include>> and <<extend>>
- Use Case descriptions

Class modelling

- Objects and classes
- Classes and attributes
- Abstraction and Encapsulation
- Associations
- Generalisation and inheritance

continued...



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**Requirements
Engineering:** 3 days

**Systems Development
Essentials with Agile:** 3 days

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Systems Modelling Techniques using UML (continued)

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Interaction diagrams

- Sequence diagrams
- Classes and operations
- Polymorphism

Activity diagrams

- Users and task analysis
- Activity diagrams
- Modelling the user interface

Where next?

- Relationship with business objectives and system requirements
- The bridge to design, software package selection and development



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