



**silicon
beach**
TRAINING

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Requirements Engineering

Duration: 3 days
Price: £1,195 + vat

Prerequisites

There are no prerequisites for this course

ISEB Examination

This Requirements Engineering course prepares participants to sit the one-hour, open book, examination leading to the certificate in Requirements Engineering - offered by the Information Systems Examinations Board (ISEB). This certificate is a core module for the ISEB diploma in Business Analysis

*In association with
Metadata Training*

This Requirements Engineering training course is designed to be both practical and participative. Theoretical concepts are introduced and are then reinforced through practical exercises and a running case study where participants can apply the skills and techniques of analysis in a realistic project simulation.

Objectives

At the end of this Requirements Engineering training course, participants will be able to:

- Recognise the role of requirements analysis in systems development
- Understand the Requirements Engineering approach
- Describe the technical and interpersonal skills required of an analyst
- Apply a range of requirements elicitation techniques, such as workshops, interviews, scenarios, observation, document analysis, prototyping and questionnaires
- Interpret a model of the system data
- Model requirements using Context and Use Case Diagrams
- Document requirements in a Requirements Catalogue
- Analyse, prioritise and validate requirements
- Understand the principles and techniques required for effective requirements management

Course Content

The role of the analyst

- The role and competencies of an analyst
- Developing analyst competencies

The requirements engineering process

- The importance of requirements engineering
- A framework for requirements engineering
- Requirements engineering in the systems development lifecycle
- Characteristics of requirements engineering

Actors and viewpoints

- Stakeholders in systems development projects
- Roles and responsibilities in the requirements engineering process

Project initiation

- The importance of the project initiation stage
- The project initiation document

continued...



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Facilitated workshops

- The use of workshops to elicit, analyse and negotiate requirements
- Structure of a facilitated workshop
- Workshop roles
- Facilitation skills
- Stimulating creative thinking

Other requirements elicitation techniques

- Observation and ethnographic studies
- Activity sampling
- Document and data source analysis
- Questionnaires
- Choosing the appropriate technique/s

Fact-finding Interviewing

- Structure of a fact-finding interview
- Questioning techniques
- Documenting interviews

Documenting requirements

- Functional and non-functional requirements
- Technical and general requirements
- The requirements catalogue
- Interpreting class diagrams
- Scoping systems and documenting requirements with use cases

Analysing requirements

- Examining the requirements catalogue
- Prioritising requirements (MoSCoW)
- Checking for ambiguity and lack of clarity
- Testability of requirements.

Scenarios and prototyping

- The use of scenarios to explore requirements
- Use case descriptions as a method of documenting scenarios
- The use of prototyping to explore requirements
- Types of prototyping (throwaway, evolutionary etc.)
- The dangers and difficulties of prototyping; managing prototyping exercises

Requirements management

- Change and version control of requirements
- Requirements traceability
- The use of CASE tools in requirements engineering

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Options

- Developing and presenting business and technical options

Validating requirements

- Validation techniques
- Quality control in requirements engineering



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