

## Requirements Engineering

### Overview

*Requirements Engineering* has been developed from Assist KD's twenty years of experience of consultancy, training and software development. It presents a range of key techniques for discovering, analysing and documenting business and system requirements and places these within the context of our own ADAPT<sup>®</sup> framework for requirements engineering. The emphasis of the course is very much on providing participants with 'hands on' experience of actually *using* the techniques as they work through a realistic case study scenario. A comprehensive course manual supports the course but also provides a valuable 'how to' reference guide for participants to use in their day-to-day work.

### ISEB certificates

The 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 also a core module for the ISEB Business Analysis Diploma.

### 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
- Characteristics of requirements engineering

#### **Actors and viewpoints**

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

#### **Project initiation**

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

#### **Facilitated workshops**

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

### **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

### **Other requirements elicitation techniques**

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

### **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



### **Validating requirements**

- Validation techniques
- Quality control in requirements engineering

### **Requirements and systems development**

- Development lifecycles
- The link between requirements and systems development
- Post-implementation review

### **Further Information**

For further information on this course please contact us:

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