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# Requirements Engineering

Requirements Engineering is a Practitioner Certificate from the BCS Professional Certifications portfolio (formerly ISEB Certifications). It is also a core module of the BCS Business Analysis Diploma.

In order to deliver the system that the business really needs, the business analyst team must uncover the requirements which will lead to a working, cost-effective solution. With the use of a supporting case study, this course defines the types of requirements, the people involved in the elicitation process, the techniques of requirements analysis and the ways of prioritising requirements. It also explores different knowledge types and appropriate techniques for handling these.

## Benefits to the individual

- Recognised qualification in its own right and also module for BCS Diploma in Business Analysis
- Gives confidence to unearth the requirements to lead to a working, cost-effective solution
- Provides a framework, skills and techniques that will enable individuals to identify and prioritise requirements

## Benefits to the business

- Increased efficiency as the correct requirements are identified and prioritised
- Gives the business a common understanding and visibility of current requirements

## Audience

Those involved in gathering, documenting, managing and validating requirements including:

Business Analysts & Systems Analysts

Business Managers

Developers

Project Managers & Team Leaders

Quality Assurance & Quality Control Managers

## Course duration

Three days

## Pre-requisites

There are no pre-requisites for the course. Some evening work is required during the course.

continued over

## Course objectives

This course will enable delegates to:

- Understand the requirements life cycle:
  - elicitation
  - analysis
  - management
  - validation
- Understand problems of deriving a clear and acceptable requirements document
- Understand how to manage an evolving requirements document
- Prepare for the BCS Certificate in Requirements Engineering

## Exam details

Delegates can take an optional one-hour written examination at the end of the course. Successful candidates are awarded the BCS Certificate in Requirements Engineering.

## Course content

**Lifecycle**

- Business plans and objectives

**Nature, Problems and Hierarchy of Requirements**

- The business case and rationale
- Terms of reference / project initiation document (PID)
- Functional requirements / non-functional requirements
- General / technical requirements and service level agreements

**Stakeholders in the Requirements Process**

- Project stakeholders
- Business stakeholders
- External stakeholders

**Requirements Elicitation and Documentation**

- Terms of reference
- Elicitation techniques
- Requirements catalogue

**Use of Models in Requirements Engineering**

- Developing a process / functional model
- Read a static (data) model

**Knowledge Types**

- Tacit, semi-tacit
- Non-tacit, taken-for-granted

**Requirements Analysis**

- Prioritising requirements
- Congruence with business objectives
- Overlapping requirements
- Identifying and negotiating conflicts between requirements
- Requirements ambiguity, realism / feasibility and testability

**Requirements Management**

- Stable and volatile requirements
- Management of change to requirements
- Traceability and ownership
- CASE for requirements specification

**Benefits Confirmation**

- Requirements testing / user acceptance testing
- Post-implementation review
- Roles of requirements actors

**Requirements Validation**

- Reviews, walkthroughs and inspections
- Prototyping
- Sign-off requirements document

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