

# BCS Requirements Engineering Certificate

Become an expert in defining and documenting business requirements following a best practice approach to ensure successful outcomes for your IT projects.

3 Day Business Analysis Course



Requirements engineering is key to the success of all IT projects and critical to developing a complete system that meets the needs of the business.

Combining theory with practical, this certification course will equip you with all the skills needed to effectively elicit, represent and validate quality requirements. Gain industry best practice techniques for extracting functional, non-functional, general and technical requirements from a range of sources within the business.

Learn how to document information as a set of meaningful and testable requirements and bring greater efficiency to the project, establishing a baseline for functional and project scope and modelling scenarios for a clear picture of what proposed changes will mean for the business.

By course end, you will be able to manage the project from the front to project initiation through to testing, capturing requirements properly as they change.

## Learning Outcomes

- Explain the importance of linking requirements to the Business Case.
- Describe the roles & responsibilities of key stakeholders in the requirements engineering process.
- Explain the use of a range of requirements elicitation techniques and the relevance of the techniques to business situations.
- Analyse, prioritise and organise elicited requirements.
- Document requirements.
- Identify problems with requirements and explain how requirements documentation may be improved.
- Create a model of the features required from a system.
- Interpret a model of the data requirements for an information system.
- Describe the principles of Requirements Management and explain the importance of managing requirements.
- Describe the use of tools to support Requirements Engineering.
- Explain the process and stakeholders involved in Requirements Validation.

## Target Audience

Current and prospective Business Analysts looking to improve their hands-on requirements engineering skills.

BAs looking to accredit their skills for recognition among employers, clients and peers.

BAs of any level looking to achieve the BCS International Diploma in Business Analysis.

Anyone seeking an understanding of what constitutes quality requirements.

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## Concepts & Terminology

Activity sampling	Document analysis	Requirements analysis	Requirements testing
Actors and viewpoints	Facilitated workshops	Requirements catalogue	Requirements validation
ADAPT requirements engineering	Fact-finding and interviewing	Requirements delivery	Scenarios and prototyping
Business and solution requirements	Functional and non-functional requirements	Requirements documentation	STROBE
Class modelling	Prioritisation	Requirements elicitation	Use case diagram
Context diagram	Project initiation	Requirements engineering process	Technical requirements
CRUD matrix	Questionnaires	Requirements management	Traceability
	Record sampling	Requirements negotiation	Transition requirements

## Course Content

### *Rationale for Requirements Engineering*

- Requirements engineering and business analysis
- Characteristics of requirements engineering
- ADAPT requirements engineering

### *Stakeholders in Requirements Engineering*

- Stakeholders & viewpoints
- Responsibilities
- References and further reading

### *Planning for Requirements Engineering*

- The importance of starting the project properly
- Managing changes to requirements
- Configuration management and version control
- Requirements patterns

### *Fact-Finding Interviewing*

- Workshop roles
- Developing groups
- Learning styles
- Workshop techniques

### *Supplementary Elicitation Techniques*

- Knowledge types, observation and ethnographic studies
- STROBE
- Activity sampling
- Document analysis
- Record sampling
- Questionnaires
- Special purpose records

### *The Requirements Document*

- Requirements communication
- The requirements document
- Cataloguing requirements

### *Requirements Analysis*

- Characteristics of good requirements
- Framework for requirements analysis
- Modelling
- Feasibility and testability checking

### *Modelling Requirements*

- Use case diagram
- Context diagram
- Class modelling
- The CRUD matrix

### *Categorising Requirements*

- Interdependencies between requirements
- Business and solution requirements
- Functional and non-functional requirements
- Technical requirements
- Transition requirements
- General requirements
- Structuring the requirements catalogue

### *Necessity and Feasibility Checking*

- Business, technical and financial feasibility
- Prioritisation

### *Negotiating Requirements Conflicts*

- Positional negotiation
- Principled negotiation
- People

### *Requirements Testability*

- Acceptance criteria
- Subjective measures
- Business tolerance

### *Scenarios and Prototyping*

- Stable and volatile requirements
- Traceability
- Change management
- Requirements re-use
- Case tools

### *Requirements Validation*

- Requirement validation process
- Quality attributes

### *Delivering the Requirements*

- Business case in the project lifecycle
- Solution assessment and validation
- Systems development lifecycle
- 'V' Model
- Link between requirements & design
- Benefits confirmation

### *ADAPT Requirements Engineering*

- Elicit requirements
- Analyse, negotiate, model and validate requirements

### *Competencies of a Business Analyst*

- Behavioural skills and personal qualities
- Developing competencies

## Assessment

Participants are assessed through a one-hour, open-book, scenario-based essay-style examination.

## Further Studies

- BCS Business Analysis Foundation
- BCS Modelling Business Processes
- BCS Business Analysis Practice



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