BUSINESS DERIVATIVES LIMITED

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In-house training

Classroom training

BCS Requirements Engineering Certificate

3 Day Business Analysis Course

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

ACCREDITED bcs TRAINING PROVIDER

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.

BA's of any level looking to achieve the BCS International Diploma in Business Analysis.

Anyone seeking an understanding of what constitutes quality requirements.

ENQUIRE NOW

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Concepts & Terminology

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