BCS Practitioner Certificate in Requirements Engineering Training

Duration: **3 Day**

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Overview

- **Develop the ability to elicit, analyse, and validate requirements confidently across Agile and Waterfall projects.**
- **Designed for business analysts, product owners, and professionals who want a structured approach to requirements engineering.**
- **Build practical skills in UML modelling, user stories, and stakeholder collaboration.**

This three-day course develops the practical skills required to work effectively with both business and IT requirements.

Participants explore where requirements originate and how different sources can influence the requirements process. These may include stakeholders, external factors, regulations, organisational needs, and business objectives.

The course focuses on ensuring that requirements are complete, clear, realistic, unambiguous, and testable. Learners develop the skills needed to document, analyse, validate, and manage requirements throughout the project lifecycle.

Both **Agile** and **Linear / Waterfall** environments are considered throughout the programme. This allows participants to understand how requirements engineering activities may differ depending on the development approach and how particular techniques can be adapted to suit different project contexts.

A strong emphasis is also placed on working effectively with stakeholders and other actors involved in the requirements process. Participants learn how collaboration and communication can improve shared understanding and help ensure that documented requirements are accurate, practical, and suitable for implementation.

Prerequisites

There are no specific prerequisites for attending this course.

Candidates preparing for the BCS certificate examination should expect to spend approximately **60–90 minutes each evening** revising course content and working through example examination questions.

An internet-enabled device such as a computer, laptop, tablet, or smartphone may be required for revision activities.

Candidates sitting a BCS examination must bring valid photographic identification.

Examples include:

- Passport
- Driving licence

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- Student identification card

Candidates who do not provide acceptable photographic identification may not be permitted to sit the examination.

BCS may provide additional time or other reasonable adjustments for candidates with a disability or whose first language differs from the language of the examination paper. Any such requirements should be communicated as early as possible and supported with the appropriate evidence where required.

Following the course, BCS sends candidates an email inviting them to register for their examination. Once registration is complete and results become available, candidates can log in to their account to view their outcome.

Who Should Attend

The BCS Practitioner Certificate in Requirements Engineering is designed for professionals who want to understand the role that business needs, customer expectations, and requirements play within professional business environments.

The course is particularly suitable for:

- Business Analysts
- Project Managers
- Systems Analysts
- Product Owners
- Product Managers
- Professionals involved in business change
- Individuals responsible for requirements within projects or transformation programmes

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What You Will Learn

By the end of the course, participants will understand how to apply a structured requirements engineering approach in both Agile and Linear project environments.

Learners will be able to:

- Explain the Requirements Engineering Framework
- Select and apply appropriate requirements elicitation techniques
- Collaborate and communicate effectively with stakeholders
- Write user stories
- Document requirements using appropriate formats
- Apply requirements management practices
- Validate and prioritise requirements
- Apply quality assurance techniques within the requirements process
- Analyse and evaluate requirements
- Adapt requirements engineering approaches for Agile and Waterfall projects

Outline

Define the Requirements Approach and Project Scope

This module introduces the overall structure of requirements engineering and the factors that influence the approach used on a project.

Learners will:

- Define what a requirement is
- Examine the stages of requirements engineering
- Understand the factors that influence the requirements approach
- Consider how project characteristics affect the selected approach
- Review the typical content of project initiation documentation

This provides the foundation for organising requirements activities effectively from the beginning of a project.

Elicit Requirements

This module examines how requirements are discovered and gathered.

Topics include:

- Different types of knowledge
- Requirements elicitation techniques
- Selecting the most suitable elicitation technique
- Applying techniques in different project environments
- Elicitation within Agile projects
- Elicitation within Linear / Waterfall projects

Participants consider when particular techniques are most appropriate and how context influences

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their use.

Record Requirements

This module focuses on how requirements should be structured and documented.

Topics include:

- Categories of requirements
- The importance of requirements documentation
- Different documentation approaches
- Requirements catalogue entries
- User stories
- Writing clear and understandable requirements

Participants compare different styles of documenting requirements and consider their suitability for different development approaches.

Build Models and Prototypes to Represent Requirements

This module explores how models and prototypes can support the understanding and validation of requirements.

Topics include:

- Requirements modelling
- The value of UML
- Use Case Diagrams
- Class Diagrams
- Visual representation of requirements
- Prototyping
- Using prototypes to elaborate requirements
- Using prototypes to support requirements validation

Participants learn how visual models can complement written requirements and improve shared understanding.

Collaborate and Communicate with Stakeholders to Clarify Requirements

This module focuses on the people involved in requirements engineering and the importance of effective collaboration.

Topics include:

- Requirements engineering actors
- Roles and responsibilities
- Stakeholder collaboration
- Stakeholder communication
- The purpose of requirements validation
- Validation approaches
- How Agile methodologies influence validation activities

Participants learn how stronger stakeholder engagement can reduce ambiguity and improve the

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quality of requirements.

Analyse, Prioritise and Assure the Quality of Requirements

This module examines how requirements are evaluated, prioritised, and improved.

Topics include:

- Requirements analysis
- Prioritisation techniques
- Requirements quality
- Quality assurance approaches
- Slicing
- Business rules
- Testability
- Assessing feasibility
- Improving clarity and consistency

Learners consider how to ensure that requirements are not only well written, but also appropriate, achievable, and aligned with business priorities.

Conduct User Analysis and Profiling

This module considers requirements from the user perspective.

Topics include:

- Analysing user roles
- Role-based needs
- Customer Journey Maps
- The relationship between user experience and requirements engineering
- Translating user needs into requirements

Participants explore how different user groups can influence both the content and priority of requirements.

Requirements Management and Traceability

The final module focuses on managing requirements throughout the project lifecycle.

Topics include:

- Requirements traceability
- The purpose of traceability
- Tracking relationships between requirements
- Requirements management
- Key components of requirements management
- Change control
- Managing changes to requirements
- Maintaining requirements throughout the project lifecycle

This module explains how requirements can be traced from their original source through design, development, testing, and delivery.

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BCS Certification Preparation

The programme covers the subject areas included within the **BCS Practitioner Certificate in Requirements Engineering**.

Candidates preparing for the certificate examination are encouraged to:

- Review course content each day
- Practise example examination questions
- Become familiar with the relevant terminology
- Understand the relationships between the stages of the Requirements Engineering Framework

By the end of the course, participants will have a more structured approach to requirements engineering and will be able to apply practical techniques for eliciting, recording, modelling, validating, analysing, prioritising, and managing requirements.