Requirements Engineering BSC Certificate Course

Master the skills needed for project success

Duration: 3 Days

This intensive three-day course covers the syllabus and exam for the BCS certificate in Requirements Engineering. The certificate is concerned with one of the major areas of business analysis work, producing a well-organised and clearly-defined set of requirements.

The syllabus is structured around a five part framework for Requirements Engineering. The five elements of the framework are Requirements Elicitation, Requirements Analysis, Requirements Validation, Requirements Documentation and Requirements Management.

This course will help you develop the skills needed to work with requirements stakeholders to ensure that requirements satisfy various perspectives and that conflicts are negotiated to a position of consensus.

Part of the BCS Diploma in Business Analysis

Requirements Engineering is one of the core modules for those wanting to achieve their BCS Diploma in Business Analysis. To obtain the full Diploma candidates must also obtain the other core module of Business Analysis Practice, a Knowledge-based specialism module and a Practitioner specialism module. Candidates must also take a one hour oral exam directly with the BCS, The Chartered Institute for IT, following successful completion of the four modular certificates.

Who Should Attend

This course is recommended for people who already have some experience in gathering and documenting requirements and who need to formalise their skills. Typical attendance includes:

- Current and prospective Business Analysts looking to improve their hands-on requirements engineering skills.
- Business Analysts 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
- Experienced Quality Assurance professionals looking to differentiate themselves by becoming QAMP certified.

Learning Outcomes

- Explain the importance of linking requirements to the Business Case
- Describe the roles and 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

Course Contents

1. **Introduction to Requirements Engineering**
   - Framework for Requirements Engineering
   - The business rationale and inputs
2. **Hierarchy of requirements**
   - Building the hierarchy
   - Categories of requirements within the hierarchy
3. **Stakeholders in the requirements process**
   - Project Stakeholders
   - Business Stakeholders
   - External stakeholders
4. **Requirements Elicitation**
   - Knowledge types – tacit and non-tacit
   - Elicitation techniques
   - Understanding the applicability of techniques
5. **Use of models in Requirements Engineering**
   - The purpose of modelling requirements
   - Modelling the business context for the system
   - Developing a model to represent the system processing requirements
   - Interpreting a data model
6. **Requirements Documentation**
   - Documentation styles and levels of definition
   - Requirements Catalogue
7. **Requirements Analysis**
   - Prioritising and packaging requirements for delivery
   - Organising requirements
   - Ensuring well-formed requirements
   - Prototyping requirements
   - Verifying requirements
8. **Requirements Validation**
   - Agreeing the requirements document
   - Types of reviews
   - Stakeholders and their areas of concern
9. **Requirements Management**
   - Dealing with changing requirements
   - The importance of traceability
   - Traceability and ownership
   - Requirements Engineering support tools

This course is **not** recommended for people with no previous experience. If you are a new business analyst or you would like to become a business analyst we recommend our Fundamentals of Business Analysis training course, which provides more in-depth training covering the complete role of the business analyst.