

Certificate in Requirements Engineering

Quick facts

Code: BP050
Course: Requirements Engineering
Level: Practitioner
Duration: 3 days
Assessment: Examination (fourth)

Summary

This certificate is concerned with the Requirements Engineering approach to requirements definition. Its focus is on using a systematic approach to eliciting, analysing, validating, documenting and managing requirements.

You will learn

Holders of the certificate should be able to:

- Describe the roles and responsibilities of key stakeholders in the requirements engineering process;
- Demonstrate the application of a range requirements elicitation techniques;
- Explain the use and the relevance of requirements elicitation techniques;
- Document and prioritise user requirements for an information system.
- Identify problems with requirements and explain how requirements documentation could be improved;
- Create a process / function model of requirements for an information system;
- Interpret a model of the data requirements for an information system;
- Explain the importance of linking objectives and requirements to the Business Case;
- Describe the principles and the importance of Requirements Management;
- Describe the use of CASE tools to support Requirements Engineering; and
- Explain the principles of requirements validation and define an approach.

Syllabus

- **Requirements Engineering process**
Lifecycle for business change; business plans and objectives; nature and problems of requirements; project stakeholders; business stakeholders; external stakeholders; RE process overview
- **Requirements and the business context**
The Business rationale (Terms of Reference, Project Initiation Document); Functional Requirements; Non-functional requirements; general technical requirements; Service Level Requirements
- **Eliciting requirements**
Knowledge types (tacit and non-tacit); elicitation techniques (interviews, workshops, observation, prototyping, scenarios, document analysis, special purpose records, questionnaires); mapping techniques to the situation
- **Use of models**
Developing a process/functional model; building a static (data) model; documenting the requirements
- **Requirements catalogue**
Identifier; description; acceptance criteria; source / owner; rationale / benefits; non-functional requirements; priority; related requirements / documents; version control
- **Requirements analysis and negotiation**
Iterating requirements, prioritising, congruence with business objectives; overlapping requirements; identifying conflicts; ambiguity; feasibility; testability
- **Requirements validation**
Document reviews; prototyping; sign-off of requirements document
- **Requirements management**
Stable and volatile requirements; management of change to requirements; traceability and ownership; CASE for Requirements Engineering
- **Benefits confirmation**
Requirements testing/User Acceptance Testing; post-implementation review; roles of requirements actors

Entry

There are no strict pre-requisites for this course, however, to gain most value from the course the following basis is recommended:

- Have 12 months work experience in a Business Change role.

Intended Audience

This course is for Business and IT professionals who would like to do business change better.

The course is primarily for:

- Business Analysts, particularly those whose work has a high informational content;
- Managers with accountability for staff who deliver business change;
- Business and project stakeholders with input to or acceptance of business change; or
- People who work in a project team.

Duration

This course is delivered in the following format:

- Three full days (8:30 to 16:30), with an
- Assessment on the fourth day

Course delivery

Learning is driven by a combination of coach-led seminars, workshops and discussions each blended around a comprehensive case study.

Our approach encourages individual thinking and group participation, facilitates knowledge sharing and provides a safe environment for delegates to practically apply their skills and knowledge.

Course materials

Comprehensive course notes are provided and supplemented by a collection of template forms to support the transition of skills and knowledge.

Course workload

Delegates will need to:

- Comprehend course materials and demonstrate understanding;
- Actively participate in seminars, workshops and discussions;
- Investigate business situations and feedback solutions to case study exercises; and
- Spend additional effort on revision and example examination questions.

Assessment

The format for the examination is a one hour written (open book) examination based on a business scenario.

Delegates who pass the examination are awarded the certificate displaying their result. Those who do not achieve the minimum pass grade are awarded a certificate of attendance, provided they have participated in the full course.

Qualifications

This course is a core module in:

- D03: Diploma in Business Analysis

and an optional module in:

- D01: Diploma in Business Change

We advise you to refer to the relevant award descriptions for information on the circumstances in which the course can count towards these qualifications because from time to time the structure and requirements of a qualification may change.

More information

For full details, including course fees and start dates, visit our course and qualifications website, www.baworks.co.za/training.

We make every effort to ensure that this information is accurate but it could change if regulations or policies change or because of financial or other constraints.