



metadata
training

BUSINESS CASE AND COURSE SYLLABUS: BCS SYSTEMS DEVELOPMENT ESSENTIALS



CONTENTS

Course information.....	2
Syllabus overview.....	5
Full syllabus.....	6
Examination format.....	10
Still got questions?.....	11

Need to know

Course name:

BCS Systems Development Essentials

Course price:

£995+VAT weekday virtual, £1195+VAT weekday classroom, £1395+VAT weekend virtual

Course duration:

3 days midweek, 2 days weekend

Course dates:

[Click here to see upcoming dates for this course](#)

Payment options:

Payment is taken via our website by card or bank transfer. Other payment options can be discussed.

Key skills learned:

- Identify the tasks and disciplines required for systems development and implementation
- Investigate a system
- Interpret business requirements and produce systems requirements
- Quality assure the systems requirements documentation
- Design test cases for the requirements
- Describe the commonly used development lifecycles defined in the syllabus
- Describe in detail one methodology that embraces one (or more) of these lifecycles
- Describe the structure and activities of this methodology
- Describe, interpret and quality assure the key models that the selected methodology uses for defining the process, static and event perspectives of the system
- Make effective use of different methods of interpersonal communications
- Identify different architectures for the systems development solutions
- Conduct a system review
- Explain how CASE tools might be used to support the method

The impact this will have on learners

Systems Development Essentials will provide learners with a solid grounding in systems investigation and quality assurance – the underpinning of successful systems development.

The confidence boost that formal training can bring will also mean better employee output because they will need less direction and support to achieve success in their role.

The positive impact this will have on your business

- Increased project transparency
- Business improvement becomes more sustainable
- Higher productivity
- Increased efficiency
- Less reliance on senior team members
- More company loyalty

Benefits at a glance of training with Metadata Training:

- Flexible training to fit any schedule
- Mid week or weekend courses
- Small class sizes for maximum learning experience
- Exam price included in the course price
- Take the exam when suits the learner best
- 5* support

Success stories

[Click here to read reviews for Metadata Training](#)

Syllabus overview



1. Why Agile? (7.5%)



2. Individuals And Their Interactions
Over Processes And Tools (7.5%)



3. Working Software Over
Comprehensive Documentation (7.5%)



4. Customer Collaboration Over
Contract Negotiation (7.5%)



5. Responding To Change Over
Following A Plan (10%)



6. The Agile Mindset (25%)



7. Roles In Agile Teams (5%)



8. Common Agile Practices (20%)



9. Agile In Practice (10%)

Full syllabus

1. System Development roles and responsibilities (10%)

Candidates will be able to:

- 1.1** Identify the Actors/Roles and Responsibilities within system development and implementation (for example, analysts, designers, developers, testers and technical architects)
- 1.2** Characteristics of these roles
- 1.3** Team structure

2. Architecture (5%)

Candidates will be able to:

- 2.1** Different levels of architecture – Enterprise, Business, Solution, Infrastructure (networks, databases)
- 2.2** Inputs at Enterprise level
- 2.3** Inputs at Solution and Infrastructure level
- 2.4** Impacts of design decisions

3. Systems Development Lifecycles (15%)

Candidates will be able to:

- 3.1** Waterfall
- 3.2** V Model
- 3.3** Incremental or phased delivery
- 3.4** Spiral or iterative
- 3.5** Advantages and disadvantages of each approach
- 3.6** Selection of an appropriate approach on defined characteristics

4. Development Practices (10%)

Candidates will be able to:

- 4.1** Bespoke development
- 4.2** Evolutionary / Agile
- 4.3** Prototyping
- 4.4** Component based development
- 4.5** Software Package solutions (COTS Commercial off-the-shelf)

5. Responding to Change over following a plan (10%)

Candidates will be able to:

- 5.1** Structure and content of a chosen representative method
- 5.2** Describe and interpret three representation models from the method, showing at least:
 - a. Process perspective
 - b. Data perspective
 - c. Event perspective
- 5.3** Explain how these models can be used to depict the logical and physical aspects of a system
- 5.4** Roles and team structures within the chosen method
- 5.5** Products within a chosen method

6. Systems Investigation (10%)

Candidates will be able to:

6.1 Fact finding approaches:

- a. Workshops
- b. Prototyping
- c. Interviewing
- d. Questionnaires (for usability or package selection for example)
- e. Scenario analysis

6.2 Functional requirements definition

6.3 Non-functional requirements definition

6.4 Documenting system requirements

6.5 Human aspects of systems investigation and introducing change

7. System Design, Deployment and Maintenance (10%)

Candidates will be able to:

7.1 Controls and security

7.2 Verification and validation

7.3 Interface design

7.4 Design principles and constraints (legal, ethical, financial)

7.5 Different types of implementation

7.6 Sign off and deployment

7.7 Post implementation reviews

7.8 Different types of maintenance and support

8. Quality Assurance (15%)

Candidates will be able to:

- 8.1** Definitions of quality
- 8.2** Requirements driven testing
- 8.3** Types of walkthrough and inspection
- 8.4** Post Project Reviews
- 8.5** Service Level Agreements

9. CASE, CAST, Application Lifecycle Management tools (5%)

Candidates will be able to:

- 9.1** Software support for systems development
- 9.2** Features of CASE and CAST tools
- 9.3** Features of Application Lifecycle Management
- 9.4** Lifecycle coverage
- 9.5** Configuration and version control

Examination format

This certificate is assessed through completion of an invigilated online exam which candidates will only be able to access at the date and time they are registered to attend.

Type	Written examination based on a business scenario
Duration	60 minutes preceded by 15 minutes reading time
Supervised	Yes
Open Book	Yes
Passmark	50%
Delivery	Paper based.

Adjustments and/or additional time can be requested in line with the BCS reasonable adjustments policy for candidates with a disability, or other special considerations including English as a second language.



Got more questions?



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Book a call with a
course adviser

