# BCS Foundation Certificate in Digital Solution Development Training

Duration: **3 Day**

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## Overview

The **BCS Foundation Certificate in Digital Solution Development** is an introductory certification programme providing broad coverage of the concepts, practices, methods and disciplines involved in developing digital solutions within a modern enterprise.

The course focuses particularly on the development space between **Business Analysis and the coding environment**. Participants explore not only how digital solutions are developed, but also how services and requirements are defined, how user experience influences design, how architecture and data are considered, and how quality, deployment, maintenance and cyber security contribute to the wider solution lifecycle.

The programme is designed to remain as independent as possible from individual products, technologies and platforms. This enables participants to build knowledge that can be applied across different organisations, technology environments and digital initiatives.

The course also prepares participants for the **BCS Foundation Certificate in Digital Solution Development** examination, with the syllabus positioned at **SFIA Levels 1/2**.

## Prerequisites

There are no mandatory prerequisites for this course.

As a foundation-level programme, it is suitable for participants from a range of professional and technical backgrounds.

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## Who Should Attend

The course is designed for people who want a broader understanding of how modern digital software solutions are developed.

It is particularly relevant to:

- Professionals outside software development who need to understand the terminology, concepts, techniques, standards, frameworks and processes used in modern digital application development
- Developers with entry-level coding experience who want to broaden their knowledge and potentially progress towards a **Solution Architect** role
- Experienced practitioners maintaining legacy software solutions who want to refresh their understanding of modern digital development approaches
- Graduates from non-IT disciplines seeking to move into technology-related consulting roles

Relevant job roles may include:

- Software Developer / Software Engineer
- Software Tester
- Business Analyst
- Systems Analyst
- Solution Architect
- Product Owner
- Scrum Master
- Systems Development Manager
- IT Service Delivery Manager

## What You Will Learn

By completing the course, participants will develop foundation-level knowledge and understanding of the terminology, concepts, techniques, standards, frameworks and processes associated with modern Digital Solution Development.

The principal areas include:

- The context for Digital Solution Development
- Digital service definition
- Requirements engineering
- User Experience (UX) and User Interface (UI)
- Digital solution architecture and design
- Data and information architecture and design
- Quality Assurance (QA) and Quality Control (QC)
- Software testing
- Digital solution acquisition, deployment and maintenance
- Cyber security

## Outline

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## Introductory Module — Introduction to Digital Solution Development

The opening module establishes the scope of the programme and the wider Digital Solution Development landscape.

- Purpose and scope of the course
- Understanding Digital Solution Development
- Digital solutions within modern enterprises
- Overview of the digital solution lifecycle
- Introduction to the principal disciplines covered by the programme

## Module 1 — The Context for Digital Solution Development

Explore the organisational and technology context in which digital solutions are created.

- The role of Digital Solution Development
- Modern solution development environments
- Core development concepts and approaches
- Roles involved in solution development
- Connections with the wider digital service lifecycle

This module establishes the foundation for the business and technical topics covered throughout the remainder of the programme.

## Module 2 — Digital Service Definition and Requirements Engineering

Examine how services and requirements are defined before and during solution development.

- Digital service definition
- Understanding business and user needs
- Requirements engineering
- The role of requirements in solution development
- Connections between Business Analysis and Digital Solution Development

## Module 3 — User Experience (UX) and User Interface (UI)

Explore the importance of user experience and interface considerations when creating digital solutions.

- User Experience (UX) concepts
- User Interface (UI)
- Reflecting user needs in solution design
- The relationship between UX and UI
- User-focused digital solution development

## Module 4 — Digital Solution Architecture and Design

Develop an understanding of the architecture and design concepts underpinning digital solutions.

- Solution architecture
- Digital solution design
- Impact of architectural decisions
- Architecture in modern digital applications

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- Relationship between design and development

The emphasis remains technology and platform agnostic, providing an understanding of architecture and design that can be applied in different environments.

### Module 5 — Data and Information Architecture and Design

Explore the role of data and information structures within digital solutions.

- Data architecture
- Information architecture
- Fundamental data and information design concepts
- The role of data in digital solutions
- Relationship between solution design and data architecture

### Module 6 — Quality Assurance, Quality Control and Testing

Consider how quality is addressed throughout Digital Solution Development.

- Quality Assurance (QA)
- Quality Control (QC)
- Relationship between QA and QC
- The role of testing
- Integrating quality into the solution development lifecycle

### Module 7 — Digital Solution Acquisition, Deployment and Maintenance

Examine activities associated with introducing and maintaining digital solutions beyond their initial development.

- Digital solution acquisition
- Deployment
- Moving solutions into operational environments
- Maintenance
- Post-development stages of the digital solution lifecycle

### Module 8 — Cyber Security

Explore the importance of cyber security within modern Digital Solution Development.

- Fundamental security considerations
- Cyber security awareness
- Security within the solution development process
- Importance of security requirements in modern digital services

## BCS Mock Examination

A **BCS Mock Examination** is included to support certification preparation.

The mock examination provides an opportunity to consolidate the subjects covered during the course and assess readiness before taking the official certification assessment.

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## Exams and Assessments

The course prepares candidates for the **BCS Foundation Certificate in Digital Solution Development** examination.