

BCS Practitioner Certificate in System Design Techniques Course

Course Duration : 28 Hours

Course code : BCS-SDT-901

1. Course Overview

The BCS Practitioner Certificate in System Design Techniques Course is designed to equip professionals with advanced knowledge of designing efficient, scalable, and reliable IT systems. This course focuses on applying structured design techniques to transform business requirements into well-defined system solutions.

2. What you'll learn?

- Fundamentals of system design techniques
- System architecture and design principles
- Object-oriented and modular design approaches
- Transforming business requirements into system design
- Performance, scalability, and security considerations
- Preparation for BCS Practitioner certification exam

3. Target Audience

- System analysts and business analysts
- Software developers and architects
- IT professionals and consultants
- Project managers and team leads
- Professionals involved in system design

4. Pre-Requisites

- Basic understanding of IT systems and software development
- Knowledge of system analysis or design concepts
- Experience in IT or development roles (recommended)
- BCS Foundation certification (preferred but not mandatory)

5. Course Content (Modules)

Module 1: Introduction to System Design

- Overview of system design concepts
- Role of design in SDLC
- Design principles and best practices

Module 2: System Architecture & Design Techniques

- Types of system architectures
- Modular and layered design
- Object-oriented design concepts

Module 3: Requirements to Design Transformation

- Translating requirements into design
- Use cases and design models
- Design documentation

Module 4: Performance, Security & Scalability

- Designing for performance and scalability
- Security considerations in design
- Risk management in system design

Module 5: Case Studies & Certification Preparation

- Real-world design scenarios
- Best practices
- BCS Practitioner exam preparation

