

ISACA Software Development Fundamentals

ITCA

Course Duration : 24 Hours

Course code : ITCA-SDF

1. Course Overview

The ISACA Software Development Fundamentals – ITCA course introduces learners to the core concepts of software development and application lifecycle management. This course is designed for beginners and aspiring IT professionals who want to understand how software applications are designed, developed, tested, and maintained. Learners gain practical insight into programming fundamentals, development methodologies, and secure software development practices.

2. What you'll learn?

- Software development fundamentals and terminology
- Programming basics and logic building
- Software development life cycle (SDLC) models
- Introduction to coding, testing, and debugging
- Secure software development principles
- Overview of modern development practices and tools

3. Target Audience

- Students and fresh graduates entering software roles
- Beginners interested in application development
- Non-technical professionals transitioning to IT
- Aspiring developers and IT professionals
- Individuals preparing for ISACA entry-level certifications

4. Pre-Requisites

- Basic computer knowledge
- No prior programming experience required

5. Course Content (Modules)

Module 1: Introduction to Software Development

- Software concepts and types
- Roles in software development

Module 2: Programming Fundamentals

- Programming logic and constructs
- Introduction to coding concepts

Module 3: Software Development Life Cycle (SDLC)

- Waterfall, Agile, and DevOps models
- Requirements gathering and design

Module 4: Testing, Debugging, and Maintenance

- Software testing fundamentals
- Debugging techniques and maintenance

Module 5: Secure and Modern Software Development

- Secure coding principles
- Overview of modern tools and practices