

ENTERPRISE ARCHITECTURE SKILLS SPECIALISATION

Software Architecture

The Software Architect has mastered the value, use, development and delivery of intensive systems.

They have developed skills in software development lifecycles, software engineer in and software design. Software architect are responsible for the value generated from a particular software system or system of systems.

The course builds on the key skills and capabilities developed during the associate foundation courses. During the course you will explore the software engineering and application development practices that distinguish you as a software architect. The program builds on the IT environment skills and design skills learned in the foundation associate courses.

KEY BENEFITS

- To apply rigorous software design methodology that consistently yields the right level of technical design documentation and develop technical solutions that conform both to customer requirements and software development standards.
- To review and optimised software designs based on rigorous understanding of costs and returns based on the business needs and wants.
- To recommend software architecture prioritisation through the project implementation process to demonstrate component selection and prototyping.
- To utilize understanding of industry software trends to innovate and provide new project/product ideas within the technology investment lifecycle and ensure software reusability.
- To communicate software design concepts in the business context to all levels of management in revealing the business values of the technology investment in the software system.

WHO SHOULD ATTEND

- System Analysts
- Programmer Analysts
- Software Engineers
- Project Leaders
- Project Managers
- SQA Managers
- Software Testers
- IT Analysts
- Software Designers
- Technical Advisors
- Software Consultants
- Software Configuration Management
- Web Analysts
- Associate Software Architect
- Junior Software Architect
- Technical Decision Maker
- IT Management



Software Architecture

CERTIFICATION:

Certified Information Technology Architect – Associate Level (CITA-A)

DURATION: 4 Days

PREREQUISITE:

- Certified Information Technology Architect Foundation (CITA-F)
- Iasa Associate – Business Technology Strategy (BTS)

ASSESSMENT:

The CITA-A certification includes two written exams based on both **BTS** and **Software Architecture Specialisation** courses.

1 MODULE

Software Architecture Fundamentals

- Lesson 1 – Various roles and teams
- Lesson 2 – Viewpoints and Terminology
- Lesson 3 – Software Architecture Principles
- Lesson 4 – System Structures

2 MODULE

Software Construction

- Lesson 1 – Application Development
- Lesson 2 – Programming Patterns
- Lesson 3 – Software Construction Process
- Lesson 4 – Technology Platform

3 MODULE

Components, Frameworks and Tools

- Lesson 1 – Client Programming and UX (User Experience)
- Lesson 2 – Client, Server and Storage Technologies
- Lesson 3 – Build and Connect Software Components
- Lesson 4 – Database Programming

4 MODULE

Service Network

- Lesson 1 – Asynchronous and Synchronous Computing
- Lesson 2 – Service Oriented Architecture (SOA)
- Lesson 3 – Messaging, XML and B2B
- Lesson 4 – Application and Service Management

5 MODULE

Architectural Process, Methods and Artifacts

- Lesson 1 – Software Architecture Modeling
- Lesson 2 – Software Quality Assurance and Total Quality Assurance
- Lesson 3 – Code Quality Analysis
- Lesson 4 – Software Complexity

6 MODULE

Architecture Throughout the Lifecycle

- Lesson 1 – Working with other Architect roles
- Lesson 2 – Software Architecture Governance
- Lesson 3 – Build, Deployment and Delivery
- Lesson 4 – Software Service Transition

**CERTIFIED INFORMATION TECHNOLOGY ARCHITECT LEVEL****CITA-A®**

Certified Information Technology Architect Associate

A specialisation based credential focusing on in-depth, role-specific skills acquisition

**FOUNDATION LEVEL
CERTIFICATION PATH GUIDELINE****Industry Experience**

> 5 years experience

Level Goal

Acquire in-depth knowledge for specialisation

Activities

- Developing Enterprise Architecture skills specialisation
- Expanding skills and practising knowledge with oversight
- Integrating business and technology
- Turning IT into a profit center

FOR MORE INFORMATION

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