

# Solution Architecture

The Solution Architect is an expert in many categories. They have hands-on experience in multiple industries and across several disciplines.

They have mastered a variety of hardware platforms including mainframes, distributed platforms, desktops, and mobile devices. They also possess skill and understanding of a variety of operating systems. A broad and deep understanding of databases is also required. Solution Architects decide which technologies to use and work very closely with developers to ensure proper implementation. They are the link between the needs of the organisation and the developers and communications expert to stakeholders.

The Iasa Solution Architecture training develops an architect's skills to effectively function as a project delivery architect for midsize to large projects using common techniques and procedures.

## KEY BENEFITS

- To prepare architects to function effectively as project delivery architects using common techniques and procedures.
- To develop solution architecture for midsize to large projects.
- To understand the 4 primary aspects of solution architecture and work with critical stakeholders to deliver them.
- To function within the team throughout project life cycles to ensure appropriate technology strategy delivery.
- To deliver solutions regularly based on sound value management techniques.
- To manage stakeholders and key team members expectations and communications strategy.

## WHO SHOULD ATTEND

- Presales Consultant
- Solution Specialists
- Solution Consultant
- Team Leader
- Strategy Consultant
- Corporate Strategist
- IT Managers
- IT Directors
- Associate Solution Architect
- Junior Solution Architect
- Technical Decision Maker
- IT Management



# Solution 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 **Solution Architecture Specialisation** courses.



### Review of Architecture Core and BTS topics

- Lesson 1 – The ITABoK 5 Pillars: BTS, IT Environment, Quality Attributes, Human Dynamics and Design
- Lesson 2 – The Mini-MBA
- Lesson 3 – Innovation Management in Architecture



### Characteristics of a Solution Architect

- Lesson 1 – Iasa View of the Solution Architecture
- Lesson 2 – Understanding the nature of the project
- Lesson 3 – The Solution Architect in the organisation



### Being the Solution Architect

- Lesson 1 – The inception of solution architecture
- Lesson 2 – The elaboration of solution architecture
- Lesson 3 – The execution of the project
- Lesson 4 – The transition of solution architecture



### Defining Critical Success Factors

- Lesson 1 – Walking through the standard metrics ROI and TCO
- Lesson 2 – Walking through the quality attributes on scalability, performance throughput, latency and availability
- Lesson 3 – Measuring and managing metrics and constraints



### Working with Stakeholders

- Lesson 1 – Understanding the context of the project and sponsor
- Lesson 2 – Understanding Solution Architect role versus: Lead Developer, Project Managers, Enterprise Architects, Infrastructure Architects and Software Architects



### The Solution Architecture

- Lesson 1 – Creating the Generic Architecture
- Lesson 2 – Creating the Product Specific Architecture
- Lesson 3 – Architecture Viewpoints



### The Software Architecture

- Lesson 1 – Technology Platforms
- Lesson 2 – Modeling and Quality Analysis
- Lesson 3 – Design Patterns Selection and Application
- Lesson 4 – SDLC: What it means to the Solution Architecture



An Association for all IT Architects

## CERTIFIED INFORMATION TECHNOLOGY ARCHITECT LEVEL

### CITA-A®

Certified Information Technology Architect Associate

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

## ASSOCIATE CERTIFICATION PATH GUIDELINE

### Industry Experience

> 5 years experience

### Level Goal

Acquire indepth 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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