

Solution Architecture

Length : 4 Days
Delivery Method : Instructor-led (Classroom)

Course Overview

The aim of the Iasa Solution Architecture training is to transform an IT professional into an expert in many categories, with hands-on experience traversing multiple industries and disciplines.

At the end of this course you will have: a clear understanding of the four primary aspects of solution architecture and the aptitude for working with critical stakeholders to deliver the solutions; mastered a variety of hardware platforms including mainframes, distributed platforms, desktops and mobile devices; grasped the inner-workings of a host of operating systems and databases.

You shall be the communication expert to the stakeholders while working within the team throughout project lifecycles to ensure appropriate delivery of technology strategies.

Audience Profile

Solution Architecture is recommended for:

- Presales Consultants
- Solution Specialists, Solution Consultants
- Strategy Consultants
- Corporate Strategists
- Team Leaders
- IT Managers, IT Directors
- Junior and Associate Solution Architects
- Technical Decision Makers
- IT Management team members

Objectives

The participant shall become competent in:

- Functioning as project delivery architect using common, proven techniques and procedures.
- Establishment solution architecture for midsize to large projects.
- Standard measurement metrics and quality attributes.
- The concepts of architecture tools and how they integrate with the SDLC.
- Development and delivery of solutions and communication strategies based on sound value management techniques.
- Managing the expectations of stakeholders and key team members.

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Course Outline:

Module 1: Review of Architecture Core and BTS topics

Lessons:

- 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

Module 2: Characteristics of a Solution Architecture

Lessons:

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

Module 3: Being the Solution Architect

Lessons:

- 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

Module 4: Defining Critical Success Factors

Lessons:

- 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

Module 5: Working with Stakeholders

Lessons:

- 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

Module 6: The Solution Architecture

Lessons:

- Lesson 1 – Creating the Generic Architecture

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

Module 7: The Software Architecture

Lessons:

- 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

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