

Infrastructure Architecture

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

Course Overview

The Iasa Infrastructure Architecture training outfits IT professionals with a mastery of networks, computing platforms and operations with which to steer the organisation toward valuable investments in hardware and platform.

After this course you will be attuned to the strategic uses of technology hardware, physical systems, networks and IT operations as an asset, and on top of that, be able to create and deliver technology strategies to optimise this asset. In addition to being able to meet requirements while balancing quality attributes and costs, you will also be trained in the processes of peer review and design validation. In project teams you shall assume the critical role of technology platform leader for both application design and development.

Audience Profile

Infrastructure Architecture can show the way to career advancement for professionals who are involved in technology hardware, physical systems, networks and IT operations. Highly recommended for:

- System Engineers, Network Engineers
- Data Centre Engineers, Server Engineers
- Security Engineers
- Infrastructure Engineers
- BCP Specialists, DR Specialists
- System Configuration Managers
- System Administrators, System Managers, System Consultants
- Junior and Associate Infrastructure Architects
- Technical Decision Makers
- Team Leaders
- IT Management team members

Objectives

Participants will acquire the knowledge and skills to:

- Participate in and recommend technology prioritization through the project implementation process.
- Address infrastructure reusability and services in addition to communicating infrastructure concepts to all levels of management.
- Apply infrastructure quality attribute techniques to support enterprise business applications on a robust platform.

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- Design networks and network components, configuration and management requirements for both solutions and existing infrastructure.
- Build out a physical or virtual server.
- Design the physical data centre and remote access facilities of an organization.
- Reduce expenditures related to power and cooling.
- Understand the infrastructure required to support effective disaster recovery and backup/restore processes.
- Understand the parameters, constraints, and design requirements for capacity within the environment including storage, network and operations capacity.
- Know the common application services offered within the infrastructure and be able to convey this understanding to another architect.

Course Outline:

Module 1: Data Center Infrastructure

Lessons:

- Lesson 1 – Data Centre Infrastructure
- Lesson 2 – Networking and Telephony
- Lesson 3 – Storage Platform
- Lesson 4 – Compute Platform and Architecture

Module 2: Application and Management Systems

Lessons:

- Lesson 1 – Operating Platform and Architecture
- Lesson 2 – Infrastructure Application Platform
- Lesson 3 – Business Application Platform
- Lesson 4 – Management Platform
- Lesson 5 – Monitoring Platform and Architecture
- Lesson 6 – Backup and Recovery Platform

Module 3: Patterns, Design and Models

Lessons:

- Lesson 1 – Design and Modeling for Infrastructure
- Lesson 2 – Designing for Availability
- Lesson 3 – Hosting Models

Module 4: Frameworks, Methodologies and Tools

Lessons:

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- Lesson 1 – Infrastructure Frameworks and Methodologies
- Lesson 2 – Service Design (ITIL)
- Lesson 3 – Service Transition (ITIL)
- Lesson 4 – Service Operation (ITIL)

Module 5: Architecture throughout the Lifecycle

Lessons:

- Lesson 1 – Working with other Architects
- Lesson 2 – The role of an Architect during a project lifecycle
- Lesson 3 – Day in a life
- Lesson 4 – Looking forward

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