CONCEPT

# Advanced IT Infrastructure & Enterprise Architecture Training Course



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## Introduction:

Advanced IT infrastructure and enterprise architecture is a 1-week course for infrastructure managers, enterprise architecture leads, solution architecture specialists and technology governance heads, culminating in an Enterprise Architecture Transition Blueprint for their organisation. Disjointed technology investments, legacy infrastructure sprawl and fragmented architectural standards frequently cause project delivery delays, spiralling operational costs and unmanaged governance exposures across enterprise environments. Nominees already evaluate technical infrastructure options and coordinate application integration across enterprise systems, and learning proceeds through case study examination of complex multi-tier architectures. CoreConcept Training Center delivers this advanced IT infrastructure and enterprise architecture course.

## Course Objectives:

- Align infrastructure investment decisions with business strategy using the TOGAF Standard 10th Edition Architecture Development Method
- Structure baseline and target architecture models across business, application and technology domains using the ArchiMate 3.2 Specification
- Design resilient hybrid cloud hosting models conforming to international infrastructure governance and data security baselines
- Integrate ITIL 4 service management operating models with solution architecture transition roadmaps
- Formulate an enterprise architecture governance charter to oversee architecture reviews, standards compliance and technical debt remediation
- Assemble an Enterprise Architecture Transition Blueprint detailing target state architectures, gap analyses and phased migration schedules

## Target Audience:

- Infrastructure engineering managers responsible for data centre platforms, cloud hosting environments and network connectivity
- Enterprise architecture practitioners responsible for business, application and technology architecture domains
- Solution architecture leads responsible for end-to-end system designs and cross-platform technical integration
- Technology governance leads responsible for architecture review boards, compliance tracking and technical debt management
- IT service management leads responsible for aligning infrastructure operations with architectural roadmaps

## Course Outline:

### Day 1: Enterprise Infrastructure Landscape and Current-State Architecture Assessment

- TOGAF Standard Preliminary Phase Organisational Context Assessment
- Baseline Architecture Description Across Enterprise Technology Stacks
- Enterprise Capability Mapping Supporting Digital Transformation Goals
- Technical Debt Audit Across Legacy Infrastructure Platforms
- Business Capability Gap Analysis for Infrastructure Modernisation

### Day 2: Architecture Frameworks, Metamodels and Integration Standards

- TOGAF Standard Architecture Development Method Phase Cycles
- ArchiMate 3.2 Specification Viewpoints for Cross-Domain Alignment
- ITIL 4 Service Value System Infrastructure Integration
- Enterprise Application Metamodel Design Using Modelling Repositories
- Technology Reference Model Classification for Standardised Stacks

### Day 3: Target Architecture Engineering and Hybrid Infrastructure Design

- Target Architecture Description for Scalable Multi-Tier Environments
- Hybrid Multi-Cloud Infrastructure Architecture Workload Allocation Design
- Microservices and API Integration Architecture Interface Definition
- Data Management Reference Model Storage Partitioning Design
- Disaster Recovery Architecture RPO and RTO Quantification

### Day 4: Infrastructure Risk Governance, Security Controls and Architecture Compliance

- Architecture Review Board Governance Charter and Variance Procedures
- Zero Trust Architecture Network Segmentation Boundary Verification
- High Availability Clustering Failure Mode and Effects Analysis
- Infrastructure Security Baseline Auditing Across Enterprise Platforms
- Cloud Service Tenant Shared Responsibility Matrix Review

### Day 5: Case Study Practice and Transition Blueprint Delivery

- Banking Infrastructure Case Study Architecture Gap Evaluation
- Healthcare Platform Case Study Cloud Workload Migration Mapping
- Retail Logistics Case Study Technology Roadmap Prioritisation
- Enterprise Architecture Governance Charter Implementation Plan Assembly
- Enterprise Architecture Transition Blueprint Finalisation and Presentation

## Skills You Will Gain:

- Enterprise Architecture Metamodelling
- Infrastructure Baseline and Target Assessment
- Hybrid Cloud Infrastructure Design
- Cross-Domain Architecture Alignment
- Architecture Gap Analysis
- Technology Transition Roadmapping
- Architecture Governance Enforcement

## Why Attend This Course:

- Deliver an Enterprise Architecture Transition Blueprint to the chief technology officer and the enterprise architecture review board to guide multi-year platform investments.
- Prioritise infrastructure modernisation initiatives based on business capability impact, technical debt severity and lifecycle architectural readiness.
- Eliminate costly migration delays and vendor lock-in risks by enforcing standardised reference models across infrastructure acquisitions.
- Coach technical teams and solution architects on ArchiMate visual modelling standards and architecture governance review procedures.

## Conclusion:

Back at work, the participant presents the Enterprise Architecture Transition Blueprint to the chief technology officer, infrastructure steering committees and enterprise architecture review boards. These stakeholders use the blueprint to evaluate platform consolidation options, authorise capital investments for cloud migrations and direct legacy system decommissioning. Following the initial project cycle executed under the transition blueprint, the organisation should review target state milestone achievement, actual infrastructure variance rates and technical debt reduction metrics against baseline architectural benchmarks to refine future transition roadmaps.

## Frequently Asked Questions FAQ:

### What should participants prepare before attending an advanced IT infrastructure and enterprise architecture course?

Participants should hold prior experience managing enterprise IT systems, designing network or hosting topologies, or participating in solution architecture reviews. Bringing an overview of their organisation's current infrastructure inventory or architectural landscape will assist them in tailoring the practical case study exercises directly to their operating environment.

## How does an advanced IT infrastructure and enterprise architecture course differ from an IT service management course?

IT service management courses focus primarily on operational process lifecycles and service delivery workflows. In contrast, this course establishes multi-year structural blueprints, technology domain metamodels and infrastructure integration strategies that govern how enterprise platforms, software architectures and cloud environments are designed, evaluated and transitioned.

## Why is enterprise architecture essential for modern IT infrastructure modernisation?

Enterprise architecture prevents technical fragmentation by aligning infrastructure investments with strategic business capabilities. It ensures that cloud migrations, platform consolidations and legacy upgrades follow structured governance, standardised reference models and documented transition paths that reduce technical debt and minimise unforeseen operational disruptions.

## What deliverables do participants take back to work from an advanced IT infrastructure and enterprise architecture course?

Participants take back an Enterprise Architecture Transition Blueprint containing baseline architecture descriptions, target state models, technology gap analyses and a phased migration schedule. They also receive an architecture governance review charter and standard ArchiMate viewpoint templates ready for immediate operational deployment across their organisation.