ENTERPRISE ARCHITECTURE AND BUSINESS TECHNOLOGY ALIGNMENT TRAINING COURSE

Introduction

The Enterprise Architecture and Business Technology Alignment programme is designed to help ICT professionals, enterprise architects, business analysts, systems managers and senior decision-makers understand how an organisation's business processes, information, applications and technology infrastructure should work together to support strategic objectives. Many organisations operate multiple systems that were acquired at different times, developed for separate departments or implemented without a common architectural direction. This can lead to duplicated applications, inconsistent data, expensive integration projects, weak interoperability and difficulty responding to changing operational requirements. Enterprise architecture provides a structured approach for understanding the current technology environment, defining a target state and guiding the transition towards a more coherent, adaptable and strategically aligned organisation. The programme examines the principal architecture domains, including business architecture, data architecture, application architecture and technology architecture. Participants learn how to document business capabilities, map processes, assess application portfolios, establish information flows, define integration requirements and evaluate infrastructure choices. The course introduces architecture principles, standards, roadmaps and governance mechanisms that help organisations make consistent technology decisions. It also addresses legacy system modernisation, cloud adoption, interoperability, technical debt, cybersecurity requirements and the relationship between architecture and digital transformation. Participants work through practical architecture scenarios and develop an architecture improvement roadmap that links business priorities to system capabilities, investment decisions and implementation milestones

Course Objectives

- Explain the purpose and strategic value of enterprise architecture.
- Describe the relationship between business strategy and technology architecture.
- Map business capabilities, processes, applications, data and infrastructure.
- Assess existing systems and identify duplication, gaps and integration challenges.
- Develop target architecture principles and future-state technology models.
- Evaluate architecture alternatives, standards and interoperability requirements.
- Prepare transition roadmaps for system modernisation and cloud adoption.
- Establish architecture governance and technology decision-making processes.
- Incorporate security, scalability, resilience and data governance into architecture.
- Develop an enterprise architecture improvement plan aligned with business objectives.

Course Modules

> Module 1: Enterprise Architecture Foundations
- Meaning, scope and business value of enterprise architecture.
- Relationships between strategy, business capabilities and ICT systems.
- Enterprise architecture principles, standards and design decisions.
- Overview of recognized approaches, including TOGAF concepts.

> Module 2: : Business Architecture and Capability Mapping
- Documenting business functions, capabilities and value streams.
- Mapping organisational structures, processes and business services.
- Identifying capability gaps and operational dependencies.
- Linking business architecture to strategic priorities and performance

> Module 3: Data Architecture and Information Management
- Information requirements and enterprise data models.
- Data flows, ownership, quality and lifecycle management.
- Master data, metadata and information integration.
- Data governance, privacy, security and interoperability.

> Module 4: Application Architecture and Systems Portfolio
- Mapping applications, business functions and system dependencies.
- Assessing application performance, duplication and business value.
- Application integration, APIs and service-oriented approaches.
- Managing legacy applications, technical debt and modernisation priorities

> Module 5: Technology and Infrastructure Architecture
- Infrastructure components, networks, platforms and hosting environments.
- Cloud, on-premises and hybrid infrastructure architecture.
- Scalability, resilience, availability and performance requirements.
- Infrastructure standards, technology lifecycle and capacity planning.

> Module 6: Enterprise Integration and Interoperability
- Integration patterns for enterprise applications and services.
- API management, middleware and data exchange mechanisms.
- Interoperability challenges across departments and organisations.
- Managing integration risks, standards and system dependencies.

> Module 7: Architecture Design and Target-State Development
- Assessing current-state architecture and documenting baseline conditions.
- Defining target-state business, data, application and technology models.
- Evaluating architecture options against business requirements.
- Balancing standardization, flexibility, innovation and cost.

> Module 8: Architecture Governance, Security and Compliance
- Architecture review boards, design authority and approval processes.
- Architecture principles, standards and exception management.
- Embedding cybersecurity, privacy and resilience requirements.
- Monitoring architecture compliance and managing technology risks.

> Module 9: Architecture Roadmaps and Investment Planning
- Conducting gap analysis between current and target architecture.
- Sequencing transformation initiatives and system replacement projects.
- Estimating investment requirements, dependencies and implementation risks.
- Developing architecture roadmaps, milestones and performance indicators.

> Module 10: Enterprise Architecture Capstone
- Analysing a realistic enterprise architecture problem.
- Preparing business capability and system dependency maps.
- Designing a target architecture and transition roadmap.
- Presenting an architecture governance and implementation proposal.

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