COURSE BROCHURE

THE OPEN GROUP ENTERPRISE
ARCHITECTURE FRAMEWORK(TOGAF 9.1)
Training & Certification
What is TOGAF?

- TOGAF is developed and maintained by members of The Open Group, working within the Architecture Forum.
- TOGAF is a framework for developing an enterprise architecture.
- The main focus has been on quality improvements to ensure consistent use of terminology.
- It may be used freely by any organization wishing to develop an enterprise architecture for use within that organization.
- TOGAF an Open Group standard, is a proven enterprise architecture methodology and framework used by the world’s leading organizations to improve business efficiency.
- TOGAF helps practitioners avoid being locked into proprietary methods, utilize resources more efficiently and effectively, and realize a greater return on investment.
- TOGAF is an industry-standard architecture framework that may be used freely by your organization to develop an information systems architecture.

Who Should Attend?

- Enterprise (IT) Architects
- Business Architects
- Information Security Architects
- Individuals who require a deeper understanding of TOGAF 9
- Professionals who are working in an organization where TOGAF 9 has been adopted and who need to participate in architecture projects and initiatives.
- Architects who will be responsible for developing architecture artifacts.
- Architects who wish to introduce TOGAF 9 into an architecture practice.
- Architects who want to achieve a recognized qualification to demonstrate their detailed knowledge of TOGAF 9.1
In this 4-day course, you will gain the knowledge needed to prepare for and achieve both TOGAF® 9.1 Certification. You will learn the frameworks, structure, and concepts of TOGAF 9.1 and how to analyze and apply this knowledge.

Delegates will understand the TOGAF 9 framework and how to practically apply it in support of the design and implementation of enterprise architecture.

They will also learn how to apply TOGAF to create well-designed enterprise architectures through the use of practical scenarios and case study working.

**Benefit of TOGAF 9.1**

- Any Organization undertaking, or planning to undertake, the development and implementation of an enterprise architecture for the support of business transformation will benefit from use of TOGAF.
- Organizations seeking boundary less information flow can use TOGAF to define and implement the structures and processes to enable access to integrated information within and between enterprises.
- Organizations that design and implement enterprise architectures using TOGAF are assured of a design and procurement specification that can facilitate an open systems implementation, thus enabling the benefits of open systems with reduced risk.

**Learning Objectives**

- In this 4-day course, you will gain the knowledge needed to prepare for and achieve both TOGAF® 9.1 Certification.
- You will learn the frameworks, structure, and concepts of TOGAF 9.1 and how to analyze and apply this knowledge.
- Delegates will understand the TOGAF 9 framework and how to practically apply it in support of the design and implementation of enterprise architecture.
- They will also learn how to apply TOGAF to create well-designed enterprise architectures through the use of practical scenarios and case study working.
Course Contents

ARCHITECTURE FORUM - MISSION
- Stakeholders and Values
- What is an Enterprise?
- What is an Architecture?
- What is Enterprise Architecture?
- Architecture Types
- Why Enterprise Architecture?
- Pressure to develop Enterprise Architecture
- Business Benefits of Enterprise Architecture
- The Importance of Governance
- What do we mean by Governance?

WHAT IS AN ARCHITECTURE FRAMEWORK?
- The Value of a Framework
- Enterprise Architecture Development Method
- TOGAF Origins
- TOGAF Development
- TOGAF Scope
- TOGAF Goals
- TOGAF 9 Components

TOGAF CAPABILITY FRAMEWORK
- ADM—Basic Principles
- Preliminary Phase
- Phase A : Architecture Vision
- Phase B : Business Architecture
- Phase D : Technology Architecture
- Phase E : Opportunities and Solutions
- Phase F : Migration Planning
- Phase G : Implementation Governance
- Phase H : Architecture Change Management
- TOGAF Certification
- TOGAF Foundation Target Audience
- TOGAF Certified Target Audience

TOGAF 9 COMPONENTS
- Objectives
- TOGAF 9 Components
- Roadmap
- The Architecture Development Method
- ADM Guidelines and Techniques
- Applying Iteration to the ADM
- Categories of Stakeholder
- Architecture Content Framework
- Deliverables, Artifacts and Building Blocks
- Full Content Metamodel with Relationships

THE ENTERPRISE CONTINUUM
- Architecture Repository
- TOGAF Reference Models
- High-Level TRM
- Detailed TRM
- Boundaryless Information Flow™
- Capability Framework

INTRODUCTION TO THE ARCHITECTURE DEVELOPMENT METHOD
- Architecture Repository
- TOGAF Reference Models
- High-Level TRM
- Detailed TRM
- Boundaryless Information Flow™
- Capability Framework

THE ENTERPRISE CONTINUUM AND TOOLS
- Roadmap
- Architecture Reuse
- Enterprise Continuum: Constituents
- The Architecture Continuum
- The Solutions Continuum
- Relationships
- The Enterprise Continuum
- Using the Continuum
- Relationships
- The Need for Tools
- Tools can Model the Enterprise Architecture
- Issues in Tool Standardization

ARCHITECTURE REPOSITORY
- Purpose
- Architecture Repository
- Architecture Landscape
- Reference Library
- Standards Information Base
- Standards Classification
- Governance Log Contents
- Relationship to other Parts of TOGAF
- Exercise
THE ARCHITECTURE CONTENT FRAMEWORK
- Objectives
- Introduction
- Benefits of the Architecture Content Framework
- Deliverables, Artifacts, and Building Blocks
- Relationship between Deliverables, Artifacts
- Architectural Artifacts
- Content Metamodel
- Mapping the Framework and the ADM
- Content Framework and the TOGAF ADM

THE ARCHITECTURE CONTENT METAMODEL
- Objectives
- What is a Metamodel
- Why a Metamodel
- Benefits of Content Metamodel
- Formal and Informal Modeling
- Core Content Metamodel Concepts
- TOGAF Content Metamodel and its Extensions
- Core Metamodel Entities
- Core Entities and their Relationships
- Stakeholder Needs

THE PRELIMINARY PHASE
- Objectives
- Steps
  - Scope the enterprise organizations impacted
  - Confirm governance and support frameworks
  - Define the team and organization
  - Identify and establish architecture principles

ARCHITECTURE GOVERNANCE
- Objectives
- Architecture Governance in Practice
- Architecture Board
- Architecture Board Value
- Architecture Board Responsibilities
- Architecture Board Operations
- Architecture Contracts
- Architecture Contracts and ADM
- Architecture Compliance: Terminology
- Architecture Compliance
- Architecture Compliance Reviews
- Architecture Compliance Review Process
- Establishing an Architecture Capability

BUSINESS SCENARIOS
- What is a Business Scenario?
- Business Scenarios
- Business Scenarios and the ADM
- What is a Good Business Scenario?
- SMART
- The Benefits of Business Scenarios
- Who Contributes to a Business Scenarios?
- Developing a Business Scenario

STAKEHOLDER MANAGEMENT
- Benefits
- Stakeholder Management
- Step 1: Identify Stakeholders
- Categories of Stakeholder
- Step 2: Classify Stakeholder Positions
- Example: Stakeholder Map

VIEWS AND VIEW POINTS
- Concepts and Definitions
- System
- Stakeholders
- Concerns
- View
- Viewpoint
- Views and Viewpoints
- What is an Architecture View?
- A Simple Example of a Viewpoint
- A Simple Example of a View
- Developing Views

BUILDING BLOCKS
- ABB Specifications
- Solution Building Blocks (SBBs)
- Building Blocks and the ADM
- Building Block Design
- Architecture Patterns
- F 6: ADM phases level 1
- Objectives
- Preliminary Phase
- Objectives in detail
- Approach
- Phase A Architecture Vision
- Business Scenarios
ARCHITECTURE IMPLEMENTATION SUPPORT TECNIQUES

- Objectives
- Readiness Factors
- Assess the Readiness Factors
- Readiness Factor Rating
- Readiness Factor Risks & Actions
- Risk Management
- Risk Management in the ADM
- initial Risk Assessment
- Risk Classification Scheme

PHASE A: ARCHITECTURE VISION

- Objectives
- Steps
  - Step 1: Establish the Project
  - Step 2: Identify Stakeholders
  - Step 3: Confirm Business Goals, Drivers and Constraints
  - Step 4: Evaluate Business Capabilities Chain Diagram
  - Step 5: Assess Readiness for Business Transformation
  - Step 6: Define the Scope
  - Step 7: Confirm and Elaborate Architecture Principles and Business

PHASE B: BUSINESS ARCHITECTURE-CATALOGS

- Diagrams and matrices
- Catalogs, Matrices and Diagrams
- Catalogs
- Exercise
- Matrices
- Business Interaction Matrix
- Actor/Role Matrix

PHASE C: INFORMATION SYSTEMS ARCHITECTURES

- Information Systems
- Architectures-Objectives
- Approach
- Top-Down Design-Bottom-Up
- Implementation
- Approach: Architecture Repository
- Considerations for Data Architecture

PHASE D: TECHNOLOGY ARCHITECTURE

- Technology Architecture: Inputs
- Steps
- TOGAF 9 Artifacts
- Technology Architecture Outputs
- Catalogs, Matrices, and Diagrams

PHASE E: OPPORTUNITIES AND SOLUTIONS

- Module Objectives
- Approach
- Phase E: Inputs
- Steps
- Phase E Outputs
- TOGAF 9 Artifacts
- Project Context Diagram
- Benefits Diagram

PHASE F: MIGRATION PLANNING TECHNIQUES

- The Consolidated Gaps, Solutions
- Architecture Definition Increments table
- The Transition Architecture State Evolution Table
- The Business Value Assessment Technique

PHASE G: IMPLEMENTATION GOVERNANCE

- Module Objectives
- Phase G Objectives
- Approach
- Phase G: Inputs
- Steps
- Phase G Outputs

PHASE H: ARCHITECTURE CHANGE MANAGEMENT

- Maintenance versus Redesign
- Change Impact Exercise
- Phase H: Inputs
- Change Requests
- Steps
- Phase H Outputs
- Business Users’ Architecture Contract
- Request for Architecture Work
Course Contents

CHANGE MANAGEMENT PROCESS
- Maintenance versus Redesign
- Change Impact Exercise
- Phase H: Inputs
- Change Requests
- Steps
- Phase H Outputs
- Business Users' Architecture Contract
- Request for Architecture Work

DATA ARCHITECTURE
- Steps in Data Architecture Phase
- Select reference models, viewpoints, and tools
- TOGAF 9 Artifacts
- Develop a Baseline Data Architecture Description
- Develop Target Data Architecture Description
- Perform Gap Analysis
- Define Candidate Roadmap Components
- Resolve impacts across the Architecture
- Conduct Formal Stakeholder Review
- Finalize the Data Architecture
- Create Architecture Definition Document

DATA INTEGRATED INFRASTRUCTURE

FOUNDATION ARCHITECTURE
- TOGAF Foundation Architecture
- Technical Reference Model Components
- The Technical Reference Model
- Taxonomy of Platform Services
- Taxonomy of Application Platform Service Qualities

ADM REQUIREMENTS MANAGEMENT
- Module Objectives
- ADM Requirements Management
- Requirements Development
- Resources
- Volère
- Requirements Specifications Template
- Requirements Management: Inputs
- Requirements Management: Outputs
- Requirements Impact Assessment

GUIDELINES FOR ADAPTING THE ADM: ITERATION AND LEVELS
- Module Objectives
- Iteration and Levels
- Iteration and the ADM
- Iteration to Manage the Architecture Capability
- A Hierarchy of ADM Processes
- Architecture Development Iteration "Baseline First"
- Architecture Development Iteration "Target First"
- Transition Planning
- Architecture Governance
- Applying the ADM Across the Architecture Landscape

APPLICATIONS ARCHITECTURE
- Matrices
- Application/Organization Matrix
- Example Application/Organization Matrix
- Role/Application Matrix
- Example Role/Application Matrix
- Application/Function Matrix
- Diagrams
- Application Communication Diagram
- Application and User Location Diagram
- Application Use Case Diagram
- Enterprise Manageability Diagram
GUIDELINES FOR ADAPTING THE ADM: ITERATION AND LEVELS

- Phase A: Architecture Vision
- Phase B: Business Architecture
- Phase C: Information Systems Architectures
- Phase D: Technology Architecture
- Phase E: Opportunities and Solutions
- Phase F: Migration Planning
- Phase G: Implementation Governance
- Phase H: Architecture Change Management

GUIDELINES FOR ADAPTING THE ADM: SOA

- module objectives
- what is service oriented architecture?
- preliminary phase
- phase a: architecture vision
- architecture development: phases b,c, and d

ARCHITECTURE MATURITY MODELS

- module objectives
- Capability Maturity Models
- CMMI
- US Department of Commerce ACMM
- Maturity Assessments in the ADM
- Architecture development: phases b,c, and d
Certification

TOGAF level 1 Information:

Exam Duration: 60 Minutes
Number of Questions: 40 (1 question = 1 point)
Pass Marks: 55% (22 Points out of 40 Points)
Electronic Devices Permitted: No
Open Book: No

TOGAF level 2 Information:

Exam Duration: 90 Minutes
Number of Questions: 8 (1 question = 5 Points)
Exam Pass Mark: 60% (24 Points out of 40 Points)
Electronic Devices Permitted: No
Open Book: No

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