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The
TOGAF[®]
Standard — *Version 9.2*

TOGAF 9.2

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Course Agenda

Level-1

Day1:

M0 : Course Introduction

- About this course
- TOGAF 9 Certification level
- Foundation Training
- Certified Training
- Course Objectives
- Course Content

F 6: ADM phases level 1

- Objectives
- Preliminary Phase
- Phase A Architecture Vision
- Business Scenarios
- Business Scenarios and the ADM
- Phase B Business Architecture
- Developing the Baseline Description
- Business Modeling Examples
- Using the Architecture Repository
- Phase C Information Systems Architectures
- Information Systems Architectures – Objectives
- Top-Down Design—Bottom-up Implementation
- Data-Driven Sequence Implementation
- Architecture Repository
- Considerations for the Data Architecture
- Phase D Technology Architecture
- Using the Architecture Repository
- Phase E Opportunities and Solutions
- Phase F Migration Planning



- Phase G Implementation Governance
- Phase H Architecture Change Management
- Exercise—Drivers for Architecture Change
- Change Management Process
- Maintenance versus Redesign
- Exercise—Change Impact
- ADM Requirements Management
- Resources
- Volère Requirements Specification Template

Module F7—ADM Guidelines and Techniques

- Objectives
- Guidelines
- Techniques
- Exercise
- Architecture Principles
- The need for Architecture Principles
- Template
- Example: Primacy of Principles
- Example: Self-Serve
- What makes a good set of Architecture Principles
- What is a business scenario?
- What is a good business scenario?
- The use of business scenarios in the ADM
- Gap Analysis
- Example
- Interoperability and the ADM
- Examples
- The Business Transformation Readiness Program
- Business Transformation Readiness and the ADM
- Example
- Risk Management in the ADM
- Example
- Capability based planning
- Capabilities
- Summary
- Exercise



F 11: ADM Deliverables

- Objectives
- The role of Architecture Deliverables
- Architecture Deliverables
- Request for Architecture Work
- Statement of Architecture Work
- Architecture Vision
- Communications Plan
- Architecture Definition Document
- Architecture Requirements Document
- Architecture Roadmap

F 12: Reference Models

- Objectives
- TOGAF Foundation Architecture
- The Architecture Continuum
- TRM Components
- Summary of the TRM
- A common problem
- Customer problem statement
- A Shared Vision
- How Important...
- Integrated Information Infrastructure Reference Model
- The Architecture Continuum
- TOGAF TRM Orientations
- Boundaryless Information Flow Focus
- Integrated Information Infrastructure Reference Model – High-level Model
- Components of the III-RM
- Summary of the III-RM

F 13: Certification

- Objectives
- TOGAF Certification for People
- TOGAF 9 Certification Levels
- Level 1—TOGAF 9 Foundation Target Audience



- Paths to Level 2
- Exam Paths to Level 2
- Components
- Level 1 Learning Units
- Level 2 Learning Units
- Level 1 Exam Requirements
- Level 2 Exam Requirements
- Level 2 Stepwise Development
- Level 2 Direct
- Level 2 Exam Via Bridge Requirements
- Combined Part 1 and 2 Examination
- Certification

M 1: Management Overview

- The Open Group
- Architecture Forum – Mission
- Stakeholders and Value
- 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 9.2 Standard
- 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
- Summary

Day2:

M 2: TOGAF 9 Components

- Objectives
- TOGAF 9 Components
- Roadmap
- The Architecture Development Method
- ADM Guidelines and Techniques
- Applying Iteration to the ADM
- Applying the ADM across the Architecture Landscape
- 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™
- The Integrated Information Infrastructure Reference Model (III-RM)
- Capability Framework
- Establishing the Architecture Capability as an Operational Entity
- Summary



M 3: Introduction to the Architecture Development Method

- What is the TOGAF ADM?
- Architecture Development Method – Process
- Relationship to other Parts of TOGAF
- ADM Phases
- ADM Phase Steps Example
- ADM Inputs and Outputs
- Adapting the ADM
- Governing the ADM
- Governance Repository
- Reasons to Constrain the Scope of Architectural Activity
- Scoping the Architecture Activity
- Architecture Integration

M 4: The Enterprise Continuum and Tools

- Roadmap
- TOGAF 9: Components
- Overview
- 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
- Summary

M 5: Architecture Repository

- Objectives
- Purpose
- Architecture Repository
- Architecture Landscape



- Reference Library
- Standards Information Base
- Standards Classification
- Governance Log Contents
- Relationship to other Parts of TOGAF
- Summary
- Exercise

M 9: Architecture Governance

- Objectives
- Introduction to Governance
- Governance and ADM
- Nature of Governance
- Governance – Basic Principles
- Levels of Governance
- An IT Governance Framework - COBIT
- TOGAF Architecture Governance Framework
- Conceptual Structure
- Architecture Governance Framework - Conceptual Structure
- Organizational Structure
- Benefits of Architecture Governance
- 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
- Summary

M 12: Views and View points



- Objectives
- Concepts and Definitions
- System
- Stakeholders
- Concerns
- Views and Viewpoints
- What is an Architecture View?
- A Simple Example of a Viewpoint
- A Simple Example of a View
- Developing Views in the ADM
- Exercise—Views and Viewpoints for a Simple Airport System
- The View Creation Process
- Benefits
- Using TOGAF Artifacts
- Catalogs
- Matrices
- Stakeholder Map Matrix
- Diagrams
- Example Business Footprint Diagram
- Recommended Architecture Views
- Summary

M 13: Building Blocks

- Objectives
- Building Block Characteristics
- A Good Building Block
- Building Blocks
- Architecture Building Blocks (ABBs)
- ABB Specifications
- Solution Building Blocks (SBBs)
- Building Blocks and the ADM
- Building Block Design
- Architecture Patterns



Level-2

Day3:

M 5: Architecture Repository

- Objectives
- Purpose
- Architecture Repository
- Architecture Landscape
- Reference Library
- Standards Information Base
- Standards Classification
- Governance Log Contents
- Relationship to other Parts of TOGAF
- Summary
- Exercise

M 6: The Architecture Content Framework

- Objectives
- Introduction
- Benefits of the Architecture Content Framework
- Deliverables, Artifacts, and Building Blocks
- Relationship between Deliverables, Artifacts, and Building blocks
- Architectural Artifacts
- Content Metamodel
- Mapping the Framework and the ADM
- Content Framework and the TOGAF ADM

M 7: 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 Content Metamodel
- Content Metamodel (Simplified)
- Core TOGAF 9 Artifacts
- Full Content Metamodel
- Full Content Metamodel with Relationships
- Full Content Metamodel Artifacts
- Metamodel Extensions
- Governance Extension
- Services Extension
- Process Modeling Extension
- Data Extension
- Infrastructure Consolidation Extension
- Motivation Extension
- Summary

M 8: The Preliminary Phase

- Objectives
- Preliminary Phase: Objectives in detail
- Approach
- Preliminary Phase: Main inputs
- Steps
 1. Scope the enterprise organizations impacted
 2. Confirm governance and support frameworks
 3. Define the team and organization
 4. Identify and establish architecture principles
- Defining Architecture Principles
- TOGAF Template for Principles
- An Example Statement of Principles
- Example: Primacy of Principles
- Example: Self-Serve
- Five Qualities of Principles
 5. Tailor TOGAF and, if any, other Selected Architecture



Frameworks

- Terminology Tailoring
- Process Tailoring
- Content Tailoring
- Architecture Principles, Requirements, and Roadmap
- Implement architecture tools
- Preliminary Phase: Outputs
- Summary
- TOGAF 9 Artifacts
- Catalos
- Exercises

M 10: Business Scenarios

- Objectives
- Introduction
- Business Scenarios and the ADM
- What is a Good Business Scenario?
- SMART
- The Benefits of Business Scenarios
- Who Contributes to a Business Scenario?
- Developing a Business Scenario
- Getting Business Scenarios Right
- Contents of a Business Scenario
- Template for a Business Scenario
- Exercise
- Resources
- Summary
- Exercise

M 11: Stakeholder Management

- Objectives
- Overview
- Benefits
- Stakeholder Management
- Step 1: Identify Stakeholders
- Categories of Stakeholder



- Step 2: Classify Stakeholder Positions
- Step 3: Determine Stakeholder Management Approach
- Step 4: Tailor Engagement Deliverables
- Example: Stakeholder Map
- Summary
- Exercise

M 14: Architecture Implementation Support Techniques

- Objectives
- Interoperability
- Interoperability and the ADM
- Examples
- Interoperability Requirements and Solutions
- Business Transformation Readiness Assessment
- The Business Transformation Readiness Assessment
- Readiness Factors
- Assess the Readiness Factors
- Readiness Factor Rating
- Readiness Factor Risks & Actions
- Risk Management in the ADM
- Initial Risk Assessment
- Risk Classification Scheme
- Risk Identification and Mitigation Worksheet
- Capability Based Planning
- Capabilities
- Summary
- Exercise

M 15: Phase A: Architecture Vision

- Objectives
- Architecture Vision–Objectives
- Approach
- Phase A: Inputs
- Request for Architecture Work
- Steps
 - Step 1: Establish the Project



- Step 2: Identify Stakeholders, Concerns, and Business Requirements Stakeholder Map
- Step 3: Confirm Business Goals, Drivers and Constraints
- Step 4: Evaluate Business Capabilities Value Chain Diagram
- Step 5: Assess Readiness for Business Transformation
- Step 6: Define the Scope
- Step 7: Confirm and Elaborate Architecture Principles and Business Principles
- Step 8: Develop Architecture Vision Solution Concept Diagram
- Step 9: Define the Target Architecture Value Propositions and KPIs
- Step 10: Identify the Business Transformation Risks and Mitigation Activities
- Step 11: Develop Statement of Architecture

Statement of Architecture Work

Phase A: Outputs

Summary

M 16 A: Phase B: Business Architecture—Catalos, Diagrams and Matrices

- Catalos, Matrices and Diagrams
- Business Interaction Matrix
- Actor/Role Matrix
- Diagrams
- Example Business Footprint Diagram
- Business Service/Information Diagram
- Example Business Service/Information Diagram
- Functional Decomposition Diagram
- Example Functional Decomposition Diagram
- Product Lifecycle Diagram
- Example Product Lifecycle Diagram
- Goal/Objective/Service Diagram
- Example Goal/Objective/Service Diagram
- Business Use-case Diagram



- Example Business Use-case Diagram
- Organization Decomposition Diagram
- Example Organization Decomposition Diagram
- Process Flow Diagram
- Example Process Flow Diagram
- Events Diagram
- Example Events Diagram
- Example Events Matrix

M 16: Phase B: Business Architecture

- Objectives
- Business Architecture Objectives
- Approach
- Phase B: Inputs
- Steps
 - Step 1: Select Reference Models, Viewpoints, and Tools
 - Example Artifacts
 - Examples of Modelling
 - Step 2: Develop Baseline Business Architecture
 - Step 3: Develop Target Business Architecture Description
 - Step 4: Perform Gap Analysis
 - Gap Analysis Exercise
 - Gap Analysis Exercise—Answer
 - Step 5: Define Candidate Roadmap Components
 - Step 6: Resolve Impacts across the Architecture Landscape
 - Step 7: Conduct Formal Stakeholder Review
 - Step 8: Finalize the Business Architecture
 - Step 9: Create Architecture Definition Document
- Summary of Building Block Usage in Phase B
- Phase B: Outputs
- Architecture Definition Document – Business Architecture Components
- Architecture Requirements Specification—Business Architecture Components
- Summary
- Exercise



- Phase B: Business Architecture

M 17: Phase C: Information Systems Architectures

- Objectives
- Information Systems Architectures—Objectives
- Approach
- Top-Down Design—Bottom-Up Implementation
- Alternative Approach: Data-Driven Sequence Implementation
- Approach: Architecture Repository
- Considerations for Data Architecture
- Phase C: Inputs
- Steps in Phase C
- Phase C: Outputs—Application Architecture
- Summary

M 18 A: Phase C: Data Architecture—Catalogs, Matrices and Diagrams

- Objectives
- TOGAF 9 Artifacts
- Catalogs, Matrices, and Diagrams
- Catalogs
- Exercise
- Matrices
- Data Entity/Business Function Matrix
- Example Data Entity/Business Function Matrix
- Application/Data Matrix
- Example Application/Data Matrix
- Diagrams
- Conceptual Data Diagram
- Logical Data Diagram
- Data Dissemination Diagram
- Data Dissemination Diagram—Example
- Data Lifecycle Diagram
- Data Security Diagram
- Data Security Diagram—Example
- Data Security Matrix—Example



- Data Migration Diagram
- Data Migration Diagram—Example
- Data Migration Mapping—Example
- Phase C: Data Architecture—Catalogs, Matrices, and Diagrams

M 18: Phase C: Data Architecture

- Objectives
- Data Architecture—Objectives
- Phase C—Inputs
- Steps in Data Architecture Phase
 - Step 1: Select reference models, viewpoints, and tools

TOGAF 9 Artifacts

- Step 2: Develop a Baseline Data Architecture Description
- Step 3: Develop Target Data Architecture Description
- Step 4: Perform Gap Analysis
- Step 5: Define Candidate Roadmap Components
- Step 6: Resolve impacts across the Architecture Landscape
- Step 7: Conduct Formal Stakeholder Review
- Step 8: Finalize the Data Architecture
- Step 9: Create Architecture Definition Document
- Outputs of Data Architecture
- Data Architecture Components—Architecture Definition Document
- Data Architecture Components—Architecture Requirements Specification
- Summary
- Exercise

M 19: The Integrated Information Infrastructure Reference Model

- Objectives
- Key Business and Technical Drivers
- Objectives
- Key Business and Technical Drivers
- Integrated Information Infrastructure Reference Model
- TOGAF TRM



- TOGAF TRM Orientations
- Boundaryless Information Flow Focus
- Integrated Information Infrastructure Reference Model—A High-level Model
- Components of the III-RM
- Components of the High-Level III-RM
- Integrated Information Infrastructure Reference Model—A Detailed Model
- Summary
- Exercises
- The Integrated Information Infrastructure Reference Model

M 20 A: Phase C: Applications Architecture – Catalogs, Matrices and Diagrams

- Module Objectives
- TOGAF 9 Artifacts
- Catalogs, Matrices and Diagrams
- 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
- Process/Application Realization Diagram
- Software Engineering Diagram
- Application/Migration Diagram
- Software Distribution Diagram

Day4:

M 20: Phase C: Applications Architecture

- Module Objectives



- Phase C: Inputs: Application Architecture
- Steps
 - Step 1: Select Reference Models, Viewpoints and Tools
 - Example – The Integrated Information Infrastructure Model
 - III-RM Business and Technical Drivers
 - III-RM Focus
 - III-RM High Level View
 - Step 2: Develop a Baseline Application Architecture Description
 - Step 3: Develop Target Application Architecture Description
 - Step 4: Perform Gap Analysis
 - Step 5: Define Candidate Roadmap Components
 - Step 6: Resolve Impacts Across the Architecture Landscape
 - Step 7: Conduct Formal Stakeholder Review
 - Step 8: Finalize the Application Architecture
 - Step 9: Create Architecture Definition Document
- Phase C: Outputs: Application Architecture
- Architecture Definition Document – Application Architecture Components
- Architecture Requirements Specification – Application Architecture Components
- Summary

M 21: Foundation Architecture

- Module Objectives
- TOGAF Foundation Architecture
- Technical Reference Model Components
- The Technical Reference Model
- Taxonomy of Platform Services
- Taxonomy of Application Platform Service Qualities
- Availability
- Assurance
- Usability
- Adaptability
- Customizing the TRM
- Summary



M 22 A: Phase D: Technology Architecture – Catalogs, Matrices and Diagrams

- Module Objectives
- TOGAF 9 Artifacts
- Catalogs, Matrices, and Diagrams

M 22:Phase D: Technology Architecture

- Module Objectives
- Approach
- Technology Architecture: Inputs
- Steps
- TOGAF 9 Artifacts
- Technology Architecture Outputs
- Architecture Definition Document – Technology Architecture Components
- Summary

M 23: Migration Planning Techniques

- Module Objectives
- The Implementation Factor Assessment
- The Consolidated Gaps, Solutions and Dependencies Matrix
- Architecture Definition Increments table
- The Transition Architecture State Evolution Table
- The Business Value Assessment Technique
- Summary

M 24: Phase E: Opportunities and Solutions

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



- Benefits Diagram

M 25: Phase F: Migration Planning

- Phase F Objectives
- Approach
- Phase F: Inputs
- Steps
- Phase F Outputs
- Summary

M 26: Phase G: Implementation Governance

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

M 27: Phase H: Architecture Change Management

- Module Objectives
- Phase H Objectives
- Approach
- 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
- Summary

M 28: ADM Requirements Management



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

M 29: Architecture Partitioning

- Module Objectives
- Partitioning
- Preliminary Phase
- Summary

M 30: Guidelines for Adapting the ADM: Iteration and Levels

- Module Objectives
- Iteration and Levels
- Iteration and the ADM
- Iteration to Manage the Architecture Capability
- Approaches to Architecture Development
- Classes of Architecture Engagement
- 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
- Summary

M 31: Guidelines for Adapting the ADM: Security

- Module Objectives
- Security and the ADM
- Stakeholder Concerns



- ADM Requirements Management
- Preliminary Phase
- 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
- Summary

M 32: 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
- Summary

M 33: Architecture Maturity Models

- Module Objectives
- Capability Maturity Models
- CMMI
- US Department of Commerce ACMM
- Maturity Assessments in the ADM
- Summary

M 34: Architecture Skills Framework

- Module Objectives
- Roles
- Purpose
- Benefits of using the Architecture Skills Framework
- The structure of the Architecture Skills Framework



Contact Us

For more information visit TOGAF 9.2 course page

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