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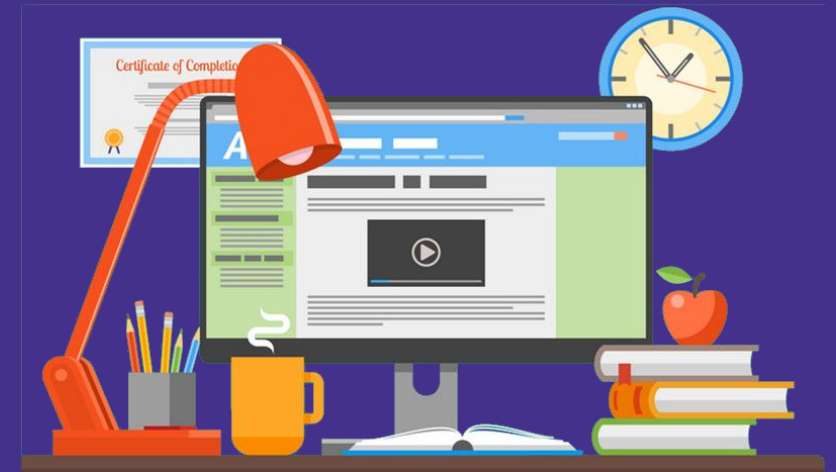
# TOGAF® 9.2 Training (Level 2)

New York – San Francisco – London – Sydney – Dubai – Singapore – Vancouver – Bangalore



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# TOGAF® 9.2 Training (Level 2)

- ✓ TOGAF® is an enterprise architecture methodology and framework used by the world's leading organisations to improve business efficiency. TOGAF® framework allows individuals to design, build and evaluate the exemplary architecture for your organisation.
- ✓ TOGAF® 9.2 (level 2) training course enables learners to initiate, develop, manage, and evaluate an architectural framework. This training course is fully accredited by The Open Group
- ✓ This training course covers advanced concepts of TOGAF® and its application to real-life IT systems creating an IS/IT framework that suits the business's objectives and encompasses security.





# Syllabus

This course is split into 20 easy-to-understand modules by which will be able to analyse and apply this TOGAF® terminology and essential concepts effectively and fit the TOGAF® framework in an organisation effectively.

- **Module 1: Preliminary Phase**
- **Module 2: Phase A: Architecture Vision**
- **Module 3: ADM Architecture Requirements Management**
- **Module 4: A Phase B: Business Architecture – Catalogues, Matrices and Diagrams**
- **Module 5: Phase C: Information Systems Architectures – Overview**
- **Module 6: A Phase C: Data Architecture – Catalogues, Matrices, and Diagrams**
- **Module 7: Integrated Information Infrastructure Reference Model**
- **Module 8: A Phase C: Application Architecture – Catalogues, Matrices, and Diagrams**
- **Module 9: TOGAF® Foundation Architecture: TRM**
- **Module 10: A Phase D: Technology Architecture – Catalogues, Matrices and Diagrams**



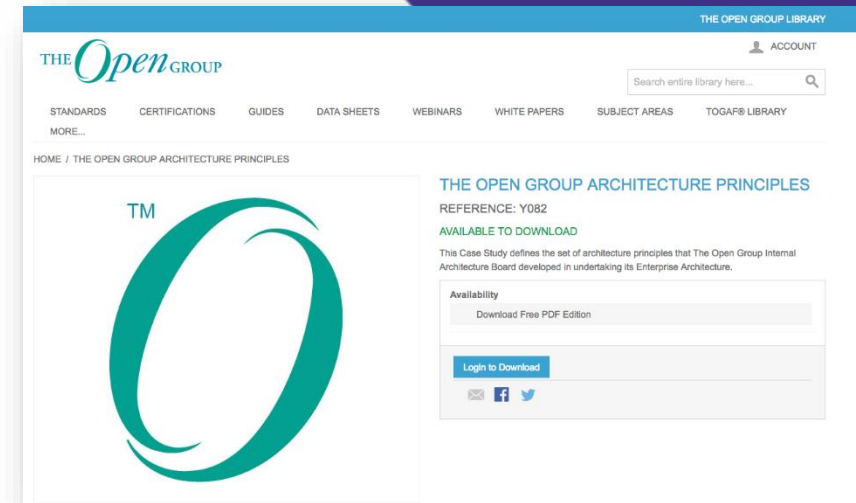
# Syllabus

- **Module 11: Migration Planning Techniques**
- **Module 12: Phase E: Opportunities and Solutions**
- **Module 13: Phase F: Migration Planning**
- **Module 14: Phase G: Implementation Governance**
- **Module 15: Phase H: Architecture Change Management**
- **Module 16: Architecture Partitioning**
- **Module 17: Adapting the ADM: Iteration and Levels**
- **Module 18: Adapting the ADM: Security**
- **Module 19: Architecture Maturity Models**
- **Module 20: Architecture Skills Framework**

## Module 1

# Preliminary Phase

- Preliminary Phase: Objectives in Detail
- Approach
- Preliminary Phase: Main Inputs
- Steps
- Defining Architecture Principles
- An Example Statement of Principles
- Five Qualities of Principles
- Principles and the Metamodel
- Tailor the TOGAF® Framework
- Terminology and Process Tailoring
- Content Tailoring
- Develop Strategy and Implementation Plans for Tools and Techniques
- Preliminary Phase: Outputs



## Module 2

# Phase A: Architecture Vision

- Approach
- Phase A: Inputs
- Request for Architecture Work
- Step 1: Establish the Architecture Project
- Step 2: Identify Stakeholders, Concerns, and Business Requirements
- Step 3: Confirm Business Goals, Drivers, and Constraints
- Step 4: Evaluate Capabilities
- Step 5: Assess Readiness for Business Transformation
- Step 6: Define the Scope
- Step 7: Confirm and Elaborate Architecture Principles, including Business Principles





## Module 2

# Phase A: Architecture Vision

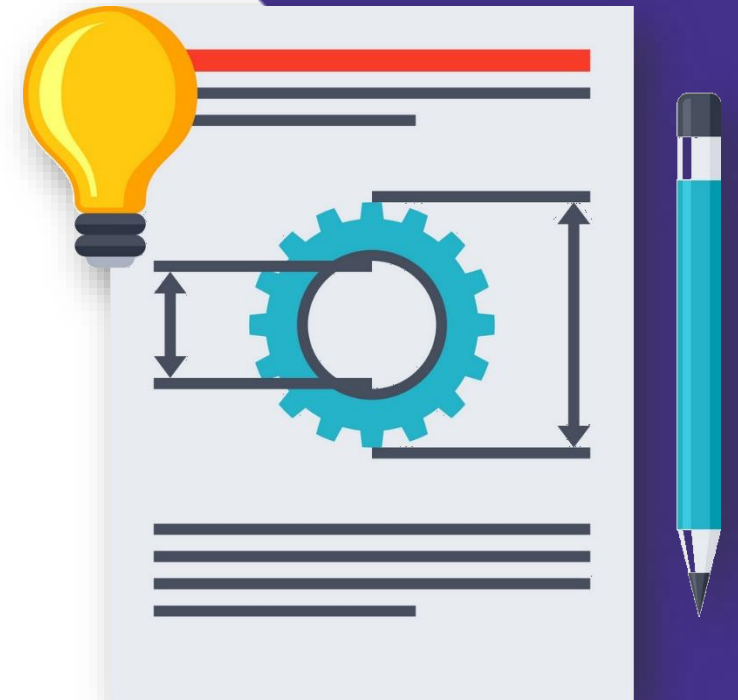
- Step 8: Develop Architecture Vision
- Step 9: Define the Target Architecture Value Propositions and KPIs
- Step 10: Identify the Business Transformation Risks and Mitigation Activities
- Step 11: Develop Statement of Architecture Work; Secure Approval
- Statement of Architecture Work
- Phase A: Outputs



## Module 3

# ADM Architecture Requirements Management

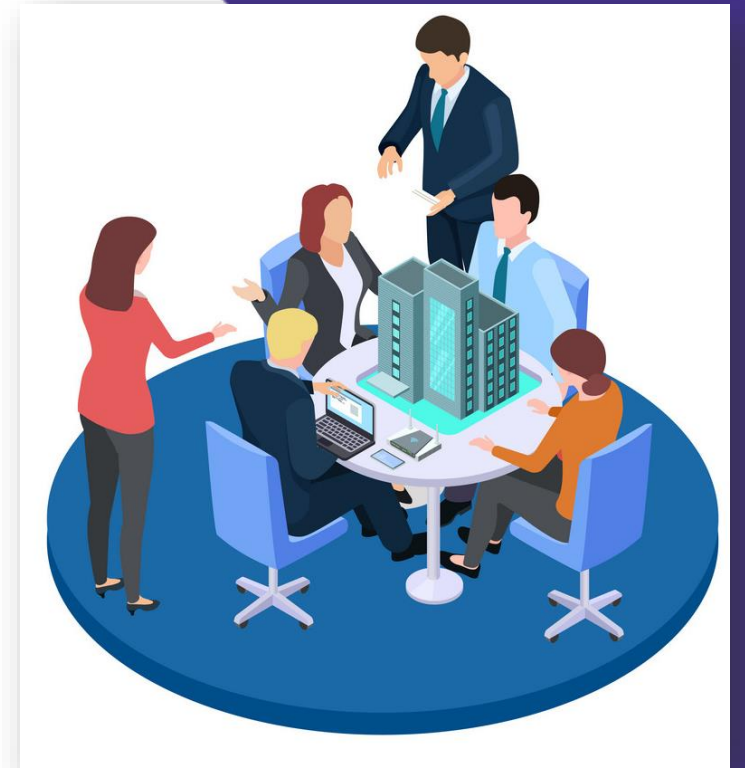
- ADM Requirements Management
- Objectives and Approach
- Requirements Development
- Resources
- Volère Requirements Specification Template
- Requirements Management: Inputs
- Steps Overview
- Steps in Detail
- Requirements Management: Outputs
- Requirements Impact Assessment



## Module 4

# A Phase B: Business Architecture – Catalogues, Matrices and Diagrams

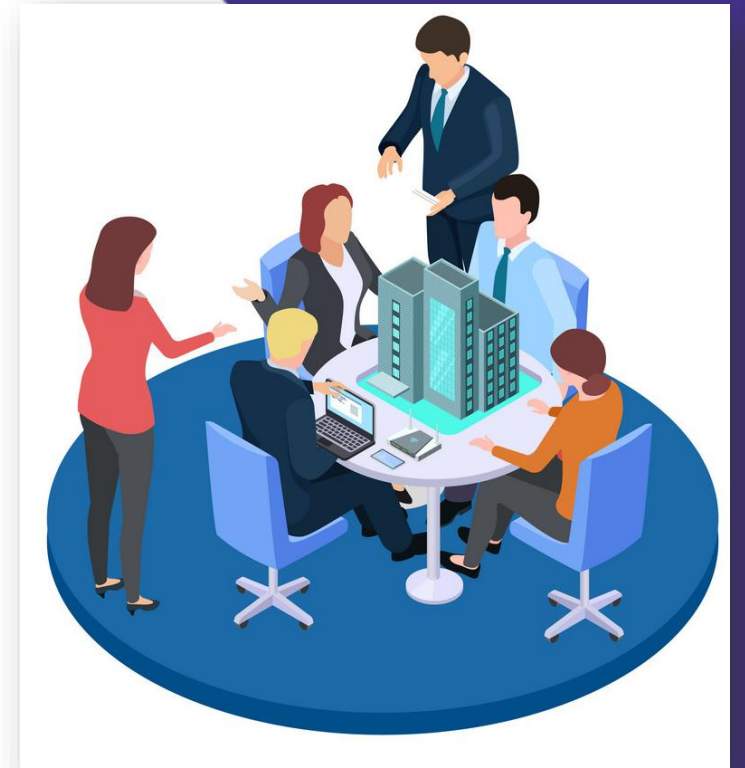
- TOGAF® Standard, Version 9.2 Artefacts
- Catalogues, Matrices and Diagrams
- Capability/Organisation Matrix
- Value Stream/Capability Matrix
- Business Interaction Matrix
- Actor/Role Matrix
- Diagrams
- Business Capability Map
- Value Stream Map
- Mapping Value Streams to Business Capabilities
- Organisation Map
- Business Footprint Diagram and Examples



## Module 4

# A Phase B: Business Architecture – Catalogues, Matrices and Diagrams

- Business Service/Information Diagram
- Example Business Service/Information Diagram
- Functional Decomposition Diagram
- Example Functional Decomposition Diagram
- Product Lifecycle Diagram– Example
- Goal/Objective/Service Diagram
- Business Use-Case Diagram
- Organisation Decomposition Diagram
- Process Flow Diagram
- Events Diagram
- Example Events Matrix



## Module 5

# Phase C: Information Systems Architectures – Overview

- Information Systems Architectures – Objectives
- Approach
- Top-Down Design – Bottom-up Implementation
- Alternative Approach: Data-Driven Sequence Implementation
- Approach: Architecture Repository



## Module 6

# A Phase C: Data Architecture – Catalogues, Matrices, and Diagrams

- Catalogues, Matrices and Diagrams
- 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– Example
- Data Security Diagram
- Example Data Security Matrix
- Data Migration Diagram
- Data Lifecycle Diagram



## Module 7

# Integrated Information Infrastructure Reference Model

- Key Business and Technical Drivers
- Integrated Information Infrastructure Reference Model
- TOGAF® TRM
- TOGAF® TRM Orientations
- Boundaryless Information Flow Focus
- Integrated Information Infrastructure Reference Model – High-level Model
- Components of the III-RM
- Components of the High-Level III-RM
- Integrated Information Infrastructure Reference Model – Detailed Model



## Module 8

# A Phase C: Application Architecture – Catalogues, Matrices, and Diagrams

- Catalogues, Matrices, and Diagrams
- Application/Organisation Matrix
- Example Application/Organisation Matrix
- Role/Application Matrix– Example
- Application/Function Matrix
- Application Communication Diagram
- Alternate Example: N2 Model
- Alternate Example: Information Exchange Matrix
- Application and User Location Diagram
- Application Use Case Diagram
- Enterprise Manageability Diagram with Example
- Process/Application Realisation Diagram– Example
- Software Engineering Diagram
- Application Migration Diagram
- Software Distribution Diagram





## Module 9

# TOGAF® Foundation Architecture: TRM

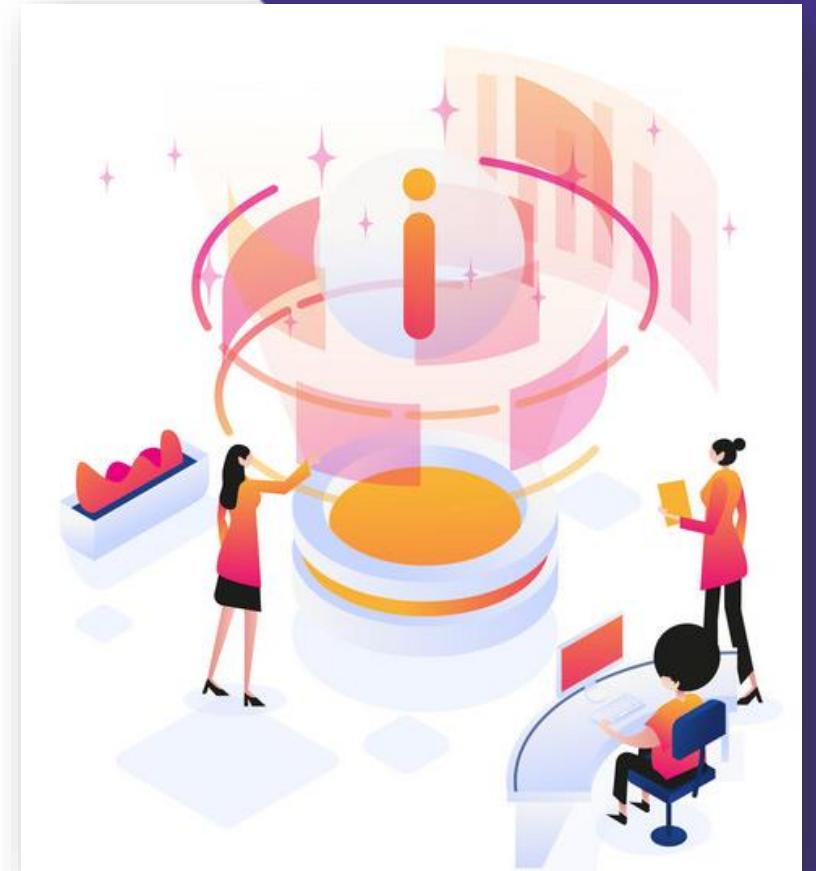
- Foundation Architectures
- Define TRM
- TRM Components
- Using the TRM
- Taxonomy of Platform Services
- Taxonomy of Application Platform Service Qualities
- Availability
- Assurance and Usability
- Adaptability



## Module 10

# A Phase D: Technology Architecture – Catalogues, Matrices and Diagrams

- Catalogues, Matrices and Diagrams
- Application/Technology Matrix
- Environments and Locations Diagram
- Platform Decomposition Diagram
- Processing Diagram
- Network Computing Hardware Diagram
- Network and Communications Diagram



## Module 11

# Migration Planning Techniques

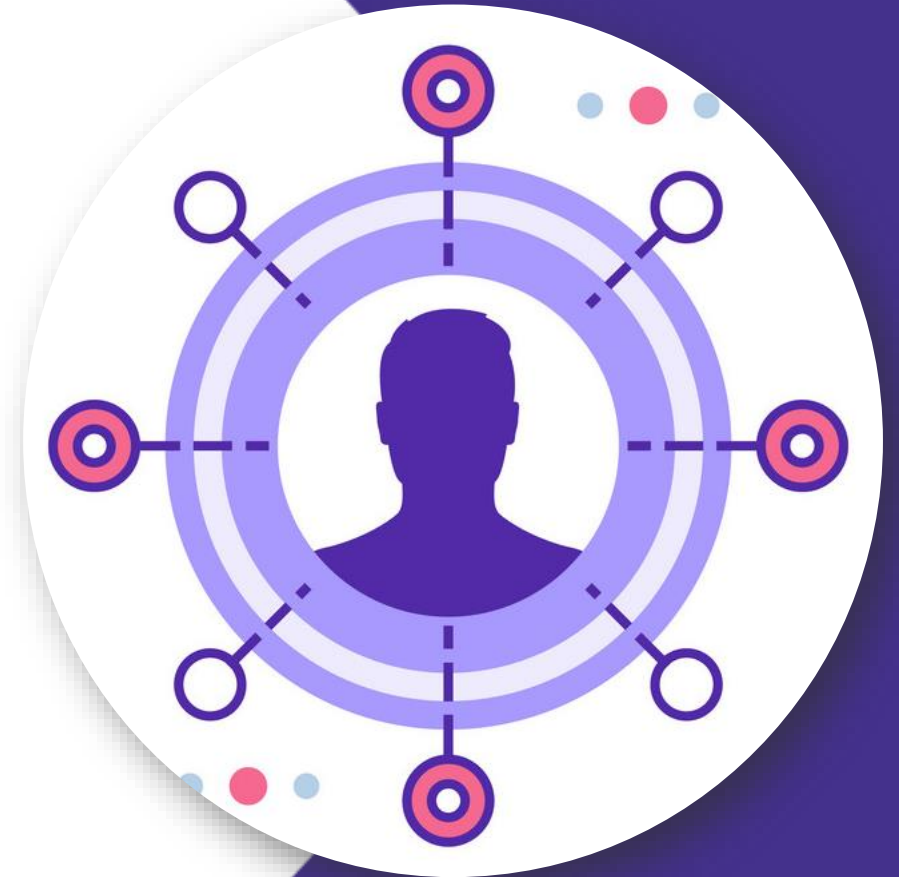
- Implementation Factor Assessment and Deduction Matrix– Example
- Consolidated Gaps, Solutions and Dependencies Matrix– Example
- Architecture Definition Increments Table
- Transition Architecture State Evolution Table
- Business Value Assessment Technique
- Exercise



## Module 12

# Phase E: Opportunities and Solutions

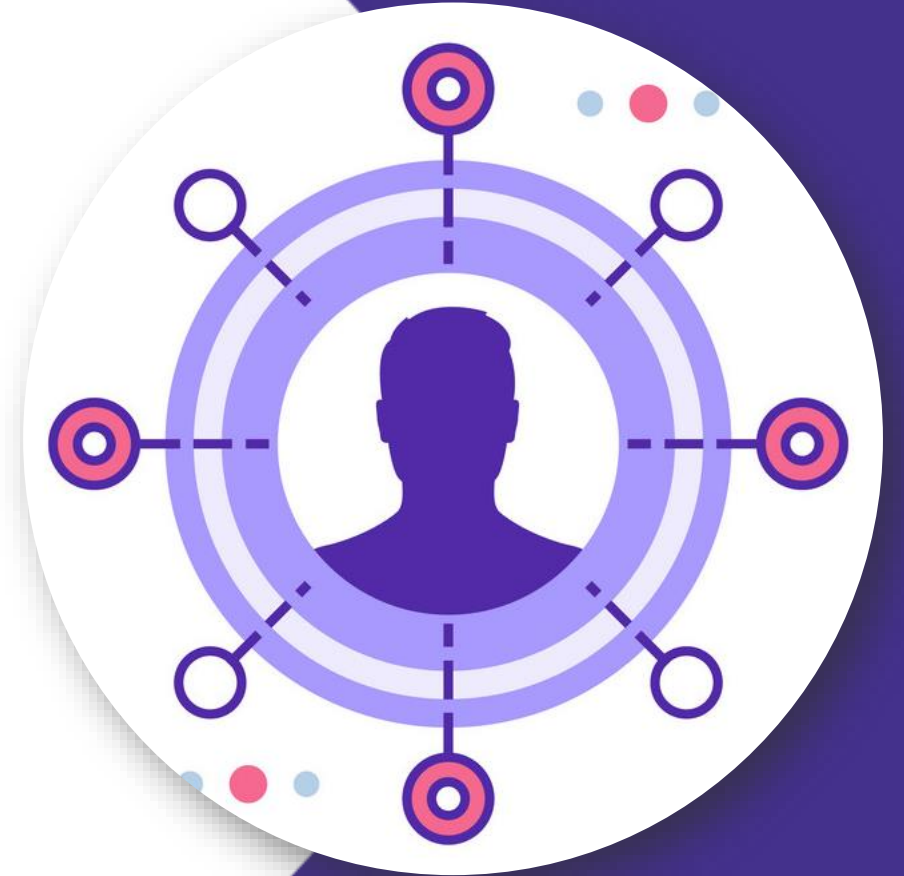
- Stakeholders
- Phase E: Inputs
- Steps:
  - Determine Corporate Change Attributes
  - Determine Business Constraints for Implementation
  - Review and Consolidate Gap Analysis Results from Phases B to D
  - Consolidate and Reconcile Interoperability Requirements
  - Refine and Validate Dependencies
  - Confirm Readiness and Risk for Business Transformation
  - Formulate Implementation and Migration Strategy
  - Identify and Group Major Work Packages
  - Identify Transition Architectures
  - Create the Architecture Roadmap & Implementation and Migration Plan



## Module 12

# Phase E: Opportunities and Solutions

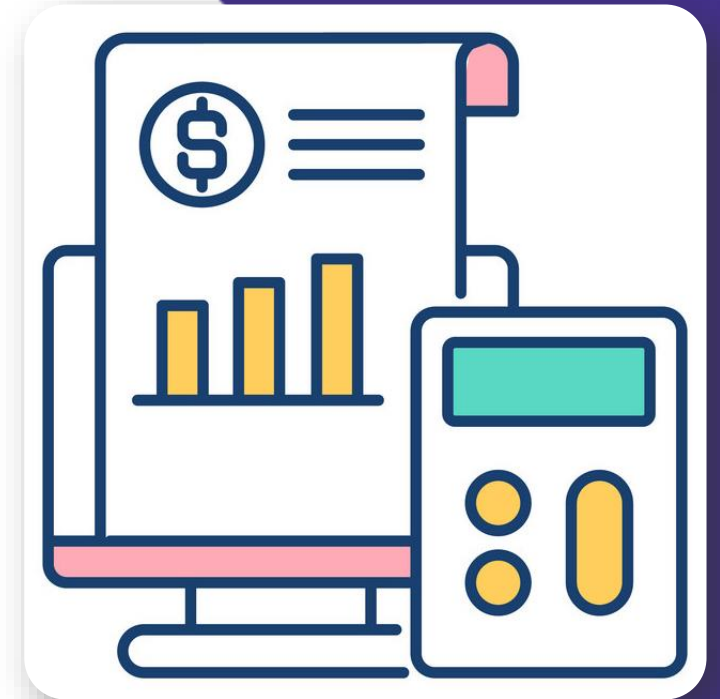
- Phase E Outputs
- Project Context Diagram
- Benefits Diagram



## Module 13

# Phase F: Migration Planning

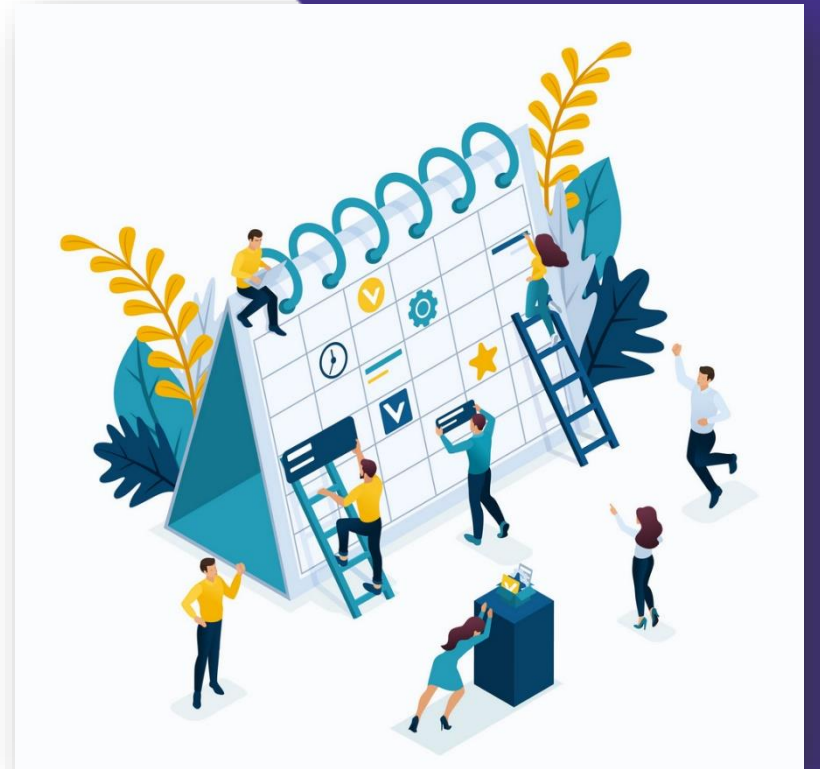
- Phase F: Inputs
- Steps
  - Confirm Management Framework Interactions for the Implementation and Migration Plan
  - Assign a Business Value to Each Work Package
  - Estimate Resource Requirements, Project Timings, and Availability/Delivery Vehicle
  - Prioritise the Migration Projects through the Conduct of a Cost/Benefit Assessment and Risk Validation
  - Confirm Architecture Roadmap and Update Architecture Definition Document
  - Generate the Implementation & Migration Plan
  - Complete the Architecture Development Cycle and Document Lessons Learned
- Phase F Outputs



## Module 14

# Phase G: Implementation Governance

- Phase G: Inputs
- Steps:
  - Step 1: Confirm Scope and Priorities
  - Step 2: Identify Deployment Resources and Skills
  - Step 3: Guide Development of Solutions Deployment
  - Step 4: Perform EA Compliance Reviews
  - Step 5: Implement Business and IT Operations
- Phase G Outputs



## Module 15

# Phase H: Architecture Change Management

- Change Management Process
- Maintenance Vs Redesign
- Change Impact Exercise
- Phase H: Inputs
- Change Requests
- Steps
  - Establish Value Realisation Process
  - Deploy Monitoring Tools
  - Manage Risks
  - Provide Analysis for Architecture Change Management
  - Develop Change Requirements to Meet Performance Targets
  - Manage Governance Process
  - Activate the Process to Implement Change





## Module 15

# Phase H: Architecture Change Management

- Phase H Outputs
- Business Users' Architecture Contract
- Request for Architecture Work



## Module 16

# Architecture Partitioning

- Partitioning
- Need to Partition
- Applying Classification to Partitioned Architectures: Solution Partitioning
- Preliminary Phase
- Example Teams Allocated



## Module 17

# Adapting the ADM: Iteration and Levels

- Iteration and Levels
- Iteration and the ADM
- Iteration to Develop a Comprehensive Architecture Landscape
- Iteration within an ADM Cycle
- Iteration to Manage the Architecture Capability
- Factors Influencing the Use of Iteration
- Iteration Cycles
- Approaches to Architecture Development
- Classes of Architecture Engagement
- Iteration Focus for Classes of Architecture Engagement (Extract)
- Iteration Considerations
- A Hierarchy of ADM Processes
- Iteration within the ADM Cycle – Baseline First



## Module 17

# Adapting the ADM: Iteration and Levels

- Iteration within the ADM Cycle – Target First
- Architecture Development Iteration “Baseline First”
- Architecture Development Iteration “Target First”
- Transition Planning
- Architecture Governance
- Applying the ADM Across the Architecture Landscape
- Organising the Architecture Landscape



## Module 18

# Adapting the ADM: Security

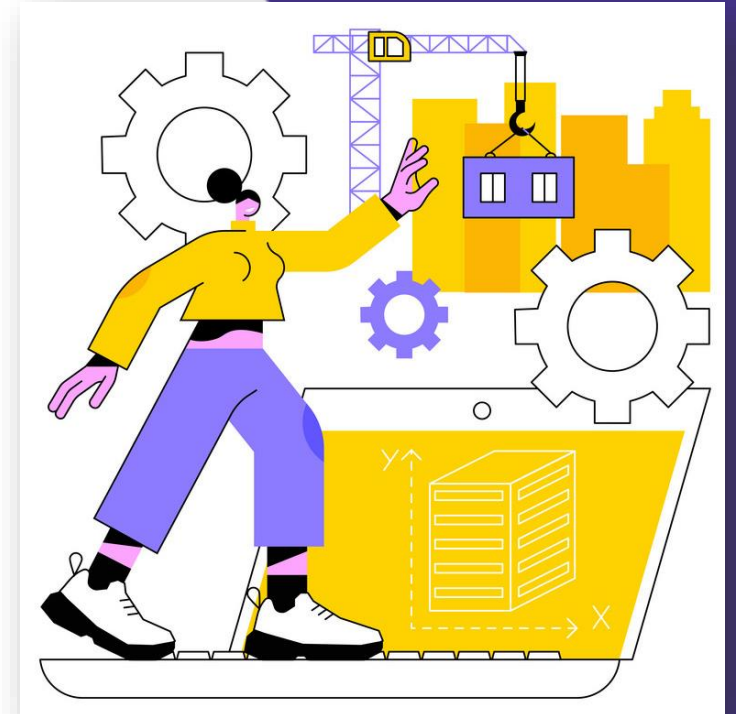
- Enterprise Security Architecture
- Security as a Cross-Cutting Concern
- ADM Requirements Management
- Preliminary Phase
- Phase A: Architecture Vision
- Phase B: Business Architecture
- Phase C: Information Systems Architectures
- Phase D: Technology Architecture
- Phase E: Opportunities and Solutions
- Phase F: Migration Planning
- Phase G: Implementation Governance
- Phase H: Architecture Change Management



## Module 19

# Architecture Maturity Models

- Capability Maturity Models
- CMMI
- US Department of Commerce ACMM
- ACMM Maturity Levels
- ACMM Enterprise Architecture Elements
- Example: ACMM Scoring Criteria
- Maturity Assessments in the ADM



## Module 20

# Architecture Skills Framework

- Roles
- Purpose
- Structure of the Architecture Skills Framework

| Roles                  | Architecture Board Member | Architecture Sponsor | Enterprise Architecture Manager | Enterprise Architecture Technology | Enterprise Architecture Data | Enterprise Architecture Applications | Enterprise Architecture Business | Program/Project Manager | IT Designer |
|------------------------|---------------------------|----------------------|---------------------------------|------------------------------------|------------------------------|--------------------------------------|----------------------------------|-------------------------|-------------|
| <b>Generic Skills</b>  |                           |                      |                                 |                                    |                              |                                      |                                  |                         |             |
| Leadership             | 4                         | 4                    | 4                               | 3                                  | 3                            | 3                                    | 3                                | 4                       | 1           |
| Teamwork               | 3                         | 3                    | 4                               | 4                                  | 4                            | 4                                    | 4                                | 4                       | 2           |
| Inter-personal         | 4                         | 4                    | 4                               | 4                                  | 4                            | 4                                    | 4                                | 4                       | 2           |
| Oral Communications    | 3                         | 3                    | 4                               | 4                                  | 4                            | 4                                    | 4                                | 4                       | 2           |
| Written Communications | 3                         | 3                    | 4                               | 4                                  | 4                            | 4                                    | 4                                | 3                       | 3           |
| Logical Analysis       | 2                         | 2                    | 4                               | 4                                  | 4                            | 4                                    | 4                                | 3                       | 3           |
| Stakeholder Management | 4                         | 3                    | 4                               | 3                                  | 3                            | 3                                    | 3                                | 4                       | 2           |
| Risk Management        | 3                         | 3                    | 4                               | 3                                  | 3                            | 3                                    | 3                                | 4                       | 1           |

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# Our Delivery Methods



## POPULAR

### Online Instructor-led

Join a scheduled class with a live instructor and other delegates. Ask questions, share documents, interact with whiteboards, ask live questions and communicate with your trainer and peers. Access the best pool of trainers, wherever you are.



## POPULAR

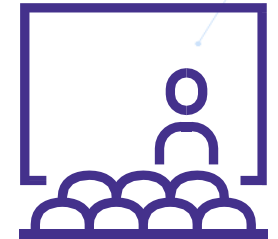
### Online Self-paced

Learn at your own pace. Our expert trainers are on hand to help you with anything. All of our courses come with a standard 90 days access which can be upgraded if need be.. Our e-learning platform is available on all devices.



### In-house

Our courses can be adapted to meet your individual project or business requirements. In-house training gives your team a great opportunity to come together, bond and discuss, which may be limited in a standard classroom setting.



### Classroom

Some of our courses are available in our classrooms. All of our trainers are highly qualified, having 10+ years of experience. We use the highest quality learning facilities to make sure your experience is as comfortable as possible.







# Contact Us





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