

## The Open Group Architecture Framework (TOGAF® 9.2) Program

### 4 days - Course agenda

Level	Topic	Subtopics
Level 1 – Day 1	<b>M0: Course Introduction</b>	<ul style="list-style-type: none"> <li>• About this course</li> <li>• TOGAF 9 Certification level</li> <li>• Foundation Training</li> <li>• Certified Training</li> <li>• Course Objectives</li> <li>• Course Content</li> </ul>
Level 1 – Day 1	<b>F 6: ADM phases</b>	<ul style="list-style-type: none"> <li>• Objectives</li> <li>• Preliminary Phase</li> <li>• Phase A Architecture Vision</li> <li>• Business Scenarios</li> <li>• Business Scenarios and the ADM</li> <li>• Phase B Business Architecture</li> <li>• Developing the Baseline Description</li> <li>• Business Modeling Examples</li> <li>• Using the Architecture Repository</li> <li>• Phase C Information Systems Architectures</li> <li>• Information Systems Architectures – Objectives</li> <li>• Top-Down Design—Bottom-up Implementation</li> <li>• Data-Driven Sequence Implementation</li> <li>• Architecture Repository</li> <li>• Considerations for the Data Architecture</li> <li>• Phase D Technology Architecture</li> <li>• Using the Architecture Repository</li> <li>• Phase E Opportunities and Solutions</li> <li>• Phase F Migration Planning</li> <li>• Phase G Implementation Governance</li> <li>• Phase H Architecture Change Management</li> <li>• Exercise—Drivers for Architecture Change</li> <li>• Change Management Process</li> <li>• Maintenance versus Redesign</li> <li>• Exercise—Change Impact</li> <li>• ADM Requirements Management</li> <li>• Resources</li> <li>• Volère Requirements Specification Template</li> </ul>
Level 1 – Day 1	<b>Module F7—ADM Guidelines and</b>	<ul style="list-style-type: none"> <li>• Objectives</li> <li>• Guidelines</li> <li>• Techniques</li> <li>• Exercise</li> <li>• Architecture Principles</li> </ul>

	<b>Techniques</b>	<ul style="list-style-type: none"> <li>• The need for Architecture Principles</li> <li>• Template</li> <li>• Example: Primacy of Principles</li> <li>• Example: Self-Serve</li> <li>• What makes a good set of Architecture Principles</li> <li>• What is a business scenario?</li> <li>• What is a good business scenario?</li>   <li>• The use of business scenarios in the ADM</li> <li>• Gap Analysis</li> <li>• Example</li> <li>• Interoperability and the ADM</li> <li>• Examples</li> <li>• The Business Transformation Readiness Program</li> <li>• Business Transformation Readiness and the ADM</li> <li>• Example</li> <li>• Risk Management in the ADM</li> <li>• Example</li> <li>• Capability based planning</li> <li>• Capabilities</li> <li>• Summary</li> <li>• Exercise</li> </ul>
<b>Level 1 – Day 1</b>	<b>F 11: ADM Deliverables</b>	<ul style="list-style-type: none"> <li>• Objectives</li> <li>• The role of Architecture Deliverables</li> <li>• Architecture Deliverables</li> <li>• Request for Architecture Work</li> <li>• Statement of Architecture Work</li> <li>• Architecture Vision</li> <li>• Communications Plan</li> <li>• Architecture Definition Document</li> <li>• Architecture Requirements Document</li> <li>• Architecture Roadmap</li> </ul>
<b>Level 1 – Day 1</b>	<b>F 12: Reference Models</b>	<ul style="list-style-type: none"> <li>• Objectives</li> <li>• TOGAF Foundation Architecture</li> <li>• The Architecture Continuum</li> <li>• TRM Components</li> <li>• Summary of the TRM A common problem</li> <li>• Customer problem statement</li> <li>• A Shared Vision</li> <li>• How Important</li> <li>• Integrated Information Infrastructure Reference Model</li> <li>• The Architecture Continuum</li> <li>• TOGAF TRM Orientations</li> <li>• Boundaryless Information Flow Focus</li> <li>• Integrated Information Infrastructure Reference Model – High-level Model</li> <li>• Components of the III-RM</li> <li>• Summary of the III-RM</li> </ul>

<p><b>Level 1 – Day 1</b></p>	<p><b>F 13: Certification</b></p>	<ul style="list-style-type: none"> <li>• Objectives</li> <li>• TOGAF Certification for People</li> <li>• TOGAF 9 Certification Levels</li> <li>• Level 1—TOGAF 9 Foundation Target Audience</li> <li>• Paths to Level 2</li> <li>• Exam Paths to Level 2</li> <li>• Components</li> <li>• Level 1 Learning Units</li> <li>• Level 2 Learning Units</li> <li>• Level 1 Exam Requirements</li> <li>• Level 2 Exam Requirements</li> <li>• Level 2 Stepwise Development</li> <li>• Level 2 Direct</li> <li>• Level 2 Exam Via Bridge Requirements</li> <li>• Combined Part 1 and 2 Examination Certification</li> </ul>
<p><b>Level 1 – Day 1</b></p>	<p><b>M 1: Management Overview</b></p>	<ul style="list-style-type: none"> <li>• The Open Group</li> <li>• Architecture Forum – Mission</li> <li>• Stakeholders and Value</li> <li>• What is an Enterprise?</li> <li>• What is an Architecture?</li> <li>• What is Enterprise Architecture?</li> <li>• Architecture Types</li> <li>• Why Enterprise Architecture?</li> <li>• Pressure to develop Enterprise Architecture</li> <li>• Business Benefits of Enterprise Architecture</li> <li>• The Importance of Governance</li> <li>• What do we mean by Governance?</li> <li>• What is an Architecture Framework?</li> <li>• The Value of a Framework</li> <li>• Enterprise Architecture Development Method</li> <li>• TOGAF Origins</li> <li>• TOGAF Development</li> <li>• TOGAF Scope</li> <li>• TOGAF Goals</li> <li>• TOGAF 9 Components</li> <li>• TOGAF 9.2 Standard</li> <li>• TOGAF Capability Framework</li> <li>• ADM—Basic Principles</li> <li>• Preliminary Phase</li> <li>• Phase A Architecture Vision</li> <li>• Phase B Business Architecture</li> <li>• Phase D Technology Architecture</li> <li>• Phase E Opportunities and Solutions</li> <li>• Phase F Migration Planning</li> <li>• Phase G Implementation Governance</li> <li>• Phase H Architecture Change Management</li> <li>• TOGAF Certification</li> <li>• TOGAF Foundation Target Audience</li> <li>• TOGAF Certified Target Audience</li> </ul>

<p><b>Level 1 - Day 2</b></p>	<p><b>M 2: TOGAF 9 Components</b></p>	<ul style="list-style-type: none"> <li>• Summary</li> <li>• Objectives</li> <li>• TOGAF 9 Components</li> <li>• Roadmap</li> <li>• The Architecture Development Method</li> <li>• ADM Guidelines and Techniques</li> <li>• Applying Iteration to the ADM</li> <li>• Applying the ADM across the Architecture Landscape</li> <li>• Categories of Stakeholder</li> <li>• Architecture Content Framework</li> <li>• Deliverables, Artifacts and Building Blocks</li> <li>• Full Content Metamodel with Relationships</li> <li>• The Enterprise Continuum</li> <li>• Architecture Repository</li> <li>• TOGAF Reference Models</li> <li>• High-Level TRM</li> <li>• Detailed TRM</li> <li>• Boundaryless Information Flow™</li> <li>• The Integrated Information Infrastructure Reference Model (III-RM)</li> <li>• Capability Framework</li> <li>• Establishing the Architecture Capability as an Operational Entity</li> <li>• Summary</li> </ul>
	<p><b>M 3: Introduction to the Architecture Development Method</b></p>	<ul style="list-style-type: none"> <li>• What is the TOGAF ADM?</li> <li>• Architecture Development Method – Process</li> <li>• Relationship to other Parts of TOGAF</li> <li>• ADM Phases</li> <li>• ADM Phase Steps Example</li> <li>• ADM Inputs and Outputs</li> <li>• Adapting the ADM</li> <li>• Governing the ADM</li> <li>• Governance Repository</li> <li>• Reasons to Constrain the Scope of Architectural Activity</li> <li>• Scoping the Architecture Activity</li> <li>• Architecture Integration</li> </ul>
<p><b>Level 1 - Day 2</b></p>	<p><b>M 4: The Enterprise Continuum and Tools</b></p>	<ul style="list-style-type: none"> <li>• Roadmap</li> <li>• TOGAF 9: Components</li> <li>• Overview</li> <li>• Architecture Reuse</li> <li>• Enterprise Continuum: Constituents</li> <li>• The Architecture Continuum</li> <li>• The Solutions Continuum</li> <li>• Relationships</li> <li>• The Enterprise Continuum</li> <li>• Using the Continuum</li> <li>• Relationships</li> <li>• The Need for Tools</li> <li>• Tools can Model the Enterprise Architecture</li> </ul>

		<ul style="list-style-type: none"> <li>• Issues in Tool Standardization</li> <li>• Summary</li> </ul>
Level 1 - Day 2	<b>M 5: Architecture Repository</b>	<ul style="list-style-type: none"> <li>• Objectives</li> <li>• Purpose</li> <li>• Architecture Repository</li> <li>• Architecture Landscape</li> <li>• Reference Library</li> <li>• Standards Information Base</li> <li>• Standards Classification</li> <li>• Governance Log Contents</li> <li>• Relationship to other Parts of TOGAF</li> <li>• Summary</li> <li>• Exercise</li> </ul>
Level 1 - Day 2	<b>M 9: Architecture Governance</b>	<ul style="list-style-type: none"> <li>• Objectives</li> <li>• Introduction to Governance</li> <li>• Governance and ADM</li> <li>• Nature of Governance</li> <li>• Governance – Basic Principles</li> <li>• Levels of Governance</li> <li>• An IT Governance Framework - COBIT</li> <li>• TOGAF Architecture Governance Framework</li> <li>• Conceptual Structure</li> <li>• Architecture Governance Framework - Conceptual Structure</li> <li>• Organizational Structure</li> <li>• Benefits of Architecture Governance</li> <li>• Architecture Governance in Practice</li> <li>• Architecture Board</li> <li>• Architecture Board Value</li> <li>• Architecture Board Responsibilities</li> <li>• Architecture Board Operations</li> <li>• Architecture Contracts</li> <li>• Architecture Contracts and ADM</li> <li>• Architecture Compliance: Terminology</li> <li>• Architecture Compliance</li> <li>• Architecture Compliance Reviews</li> <li>• Architecture Compliance Review Process</li> <li>• Establishing an Architecture Capability</li> <li>• Summary</li> </ul>
Level 1 - Day 2	<b>M 12: Views and View points</b>	<ul style="list-style-type: none"> <li>• Objectives</li> <li>• Concepts and Definitions</li> <li>• System</li> <li>• Stakeholders</li> <li>• Concerns</li> <li>• Views and Viewpoints</li> <li>• What is an Architecture View?</li> <li>• A Simple Example of a Viewpoint</li> </ul>

		<ul style="list-style-type: none"> <li>• A Simple Example of a View</li> <li>• Developing Views in the ADM</li> <li>• Exercise—Views and Viewpoints for a Simple Airport System</li> <li>• The View Creation Process</li> <li>• Benefits</li> <li>• Using TOGAF Artifacts</li> <li>• Catalogs</li> <li>• Matrices</li> <li>• Stakeholder Map Matrix</li> <li>• Diagrams</li> <li>• Example Business Footprint Diagram</li> <li>• Recommended Architecture Views</li> <li>• Summary</li> </ul>
Level 1 - Day 2	<b>M 13: Building Blocks</b>	<ul style="list-style-type: none"> <li>• Objectives</li> <li>• Building Block Characteristics</li> <li>• A Good Building Block</li> <li>• Building Blocks</li> <li>• Architecture Building Blocks (ABBs)</li> <li>• ABB Specifications</li> <li>• Solution Building Blocks (SBBs)</li> <li>• Building Blocks and the ADM</li> <li>• Building Block Design</li> <li>• Architecture Patterns</li> </ul>
Level 2 – Day 3	<b>M 5: Architecture Repository</b>	<ul style="list-style-type: none"> <li>• Objectives</li> <li>• Purpose</li> <li>• Architecture Repository</li> <li>• Architecture Landscape</li> <li>• Reference Library</li> <li>• Standards Information Base</li> <li>• Standards Classification</li> <li>• Governance Log Contents</li> <li>• Relationship to other Parts of TOGAF</li> <li>• Summary</li> <li>• Exercise</li> </ul>
Level 2 – Day 3	<b>M 6: The Architecture Content Framework</b>	<ul style="list-style-type: none"> <li>• Objectives</li> <li>• Introduction</li> <li>• Benefits of the Architecture Content Framework</li> <li>• Deliverables, Artifacts, and Building Blocks</li> <li>• Relationship between Deliverables, Artifacts, and Building blocks</li> <li>• Architectural Artifacts</li> <li>• Content Metamodel</li> <li>• Mapping the Framework and the ADM</li> <li>• Content Framework and the TOGAF ADM</li> </ul>
Level 2 – Day 3	<b>M 7: The Architecture Content</b>	<ul style="list-style-type: none"> <li>• Objectives</li> <li>• What is a Metamodel</li> <li>• Why a Metamodel</li> <li>• Benefits of Content Metamodel</li> <li>• Formal and Informal Modeling</li> </ul>

	<b>Metamodel</b>	<ul style="list-style-type: none"> <li>• Core Content Metamodel Concepts</li> <li>• TOGAF Content Metamodel and its Extensions</li> <li>• Core Metamodel Entities</li> <li>• Core Entities and their Relationships</li> <li>• Stakeholder Needs</li> <li>• The Content Metamodel</li> <li>• Content Metamodel (Simplified)</li> <li>• Core TOGAF 9 Artifacts</li> <li>• Full Content Metamodel</li> <li>• Full Content Metamodel with Relationships</li> <li>• Full Content Metamodel Artifacts</li> <li>• Metamodel Extensions</li> <li>• Governance Extension</li> <li>• Services Extension</li> <li>• Process Modeling Extension</li> <li>• Data Extension</li> <li>• Infrastructure Consolidation Extension</li> <li>• Motivation Extension</li> <li>• Summary</li> </ul>
<b>Level 2 – Day 3</b>	<b>M 8: The Preliminary Phase</b>	<ul style="list-style-type: none"> <li>• Objectives</li> <li>• Preliminary Phase: Objectives in detail</li> <li>• Approach</li> <li>• Preliminary Phase: Main inputs</li> <li>• Steps</li> <li>• Scope the enterprise organizations impacted</li> <li>• Confirm governance and support frameworks</li> <li>• Define the team and organization</li> <li>• Identify and establish architecture principles</li> <li>• Defining Architecture Principles</li> <li>• TOGAF Template for Principles</li> <li>• An Example Statement of Principles</li> <li>• Example: Primacy of Principles</li> <li>• Example: Self-Serve</li> <li>• Five Qualities of Principles</li> <li>• Tailor TOGAF and, if any, other Selected Architecture Frameworks</li> <li>• Terminology Tailoring</li> <li>• Process Tailoring</li> <li>• Content Tailoring</li> <li>• Architecture Principles, Requirements, and Roadmap</li> <li>• Implement architecture tools</li> <li>• Preliminary Phase: Outputs</li> <li>• Summary</li> <li>• TOGAF 9 Artifacts</li> <li>• Catalogs</li> <li>• Exercises</li> </ul>
<b>Level 2 – Day 3</b>	<b>M 10: Business</b>	<ul style="list-style-type: none"> <li>• Objectives</li> <li>• Introduction</li> <li>• Business Scenarios and the ADM</li> </ul>

	<b>Scenarios</b>	<ul style="list-style-type: none"> <li>• What is a Good Business Scenario?</li> <li>• SMART</li> <li>• The Benefits of Business Scenarios</li> <li>• Who Contributes to a Business Scenario?</li> <li>• Developing a Business Scenario</li> <li>• Getting Business Scenarios Right</li> <li>• Contents of a Business Scenario</li> <li>• Template for a Business Scenario</li> <li>• Exercise</li> <li>• Resources</li> <li>• Summary</li> <li>• Exercise</li> </ul>
<b>Level 2 – Day 3</b>	<b>M 11: Stakeholder Management</b>	<ul style="list-style-type: none"> <li>• Objectives</li> <li>• Overview</li> <li>• Benefits</li> <li>• Stakeholder Management</li> <li>• Step 1: Identify Stakeholders</li> <li>• Categories of Stakeholder</li> <li>• Step 2: Classify Stakeholder Positions</li> <li>• Step 3: Determine Stakeholder Management Approach</li> <li>• Step 4: Tailor Engagement Deliverables</li> <li>• Example: Stakeholder Map</li> <li>• Summary</li> <li>• Exercise</li> </ul>
<b>Level 2 – Day 3</b>	<b>M 14: Architecture Implementation Support Techniques</b>	<ul style="list-style-type: none"> <li>• Objectives</li> <li>• Interoperability</li> <li>• Interoperability and the ADM</li> <li>• Examples</li> <li>• Interoperability Requirements and Solutions</li> <li>• Business Transformation Readiness Assessment</li> <li>• The Business Transformation Readiness Assessment</li> <li>• Readiness Factors</li> <li>• Assess the Readiness Factors</li> <li>• Readiness Factor Rating</li> <li>• Readiness Factor Risks &amp; Actions</li> <li>• Risk Management in the ADM</li> <li>• Initial Risk Assessment</li> <li>• Risk Classification Scheme</li> <li>• Risk Identification and Mitigation Worksheet</li> <li>• Capability Based Planning</li> <li>• Capabilities</li> <li>• Summary</li> <li>• Exercise</li> </ul>
<b>Level 2 – Day 3</b>	<b>M 15: Phase A: Architecture Vision</b>	<ul style="list-style-type: none"> <li>• Objectives</li> <li>• Architecture Vision–Objectives</li> <li>• Approach</li> <li>• Phase A: Inputs</li> <li>• Request for Architecture Work</li> <li>• Steps</li> </ul>



		<ul style="list-style-type: none"> <li>• Step 1: Establish the Project</li> <li>• Step 2: Identify Stakeholders, Concerns, and Business Requirements</li> <li>• Stakeholder Map</li> <li>• Step 3: Confirm Business Goals, Drivers and Constraints</li> <li>• Step 4: Evaluate Business Capabilities</li> <li>• Value Chain Diagram</li> <li>• Step 5: Assess Readiness for Business Transformation</li> <li>• Step 6: Define the Scope</li> <li>• Step 7: Confirm and Elaborate Architecture Principles and Business Principles</li> <li>• Step 8: Develop Architecture Vision</li> <li>• Solution Concept Diagram</li> <li>• Step 9: Define the Target Architecture Value Propositions and KPIs</li> <li>• Step 10: Identify the Business Transformation Risks and Mitigation Activities</li> <li>• Step 11: Develop Statement of Architecture</li> <li>• Statement of Architecture Work</li> <li>• Phase A: Outputs</li> <li>• Summary</li> </ul>
Level 2 – Day 3	<b>M 16 A: Phase B: Business Architecture— Catalogs, Diagrams and Matrices</b>	<ul style="list-style-type: none"> <li>• Catalogs, Matrices and Diagrams</li> <li>• Business Interaction Matrix</li> <li>• Actor/Role Matrix</li> <li>• Diagrams</li> <li>• Example Business Footprint Diagram</li> <li>• Business Service/Information Diagram</li> <li>• Example Business Service/Information Diagram</li> <li>• Functional Decomposition Diagram</li> <li>• Example Functional Decomposition Diagram</li> <li>• Product Lifecycle Diagram</li> <li>• Example Product Lifecycle Diagram</li> <li>• Goal/Objective/Service Diagram</li> <li>• Example Goal/Objective/Service Diagram</li> <li>• Business Use-case Diagram</li> <li>• Example Business Use-case Diagram</li> <li>• Organization Decomposition Diagram</li> <li>• Example Organization Decomposition Diagram</li> <li>• Process Flow Diagram</li> <li>• Example Process Flow Diagram</li> <li>• Events Diagram</li> <li>• Example Events Diagram</li> <li>• Example Events Matrix</li> </ul>
Level 2 – Day 3	<b>M 16: Phase B: Business Architecture</b>	<ul style="list-style-type: none"> <li>• Objectives</li> <li>• Business Architecture Objectives</li> <li>• Approach</li> <li>• Phase B: Inputs</li> <li>• Steps</li> <li>• Step 1: Select Reference Models, Viewpoints, and Tools</li> </ul>

		<ul style="list-style-type: none"> <li>• Example Artifacts</li> <li>• Examples of Modeling</li> <li>• Step 2: Develop Baseline Business Architecture</li> <li>• Step 3: Develop Target Business Architecture Description</li> <li>• Step 4: Perform Gap Analysis</li> <li>• Gap Analysis Exercise</li> <li>• Gap Analysis Exercise—Answer</li> <li>• Step 5: Define Candidate Roadmap Components</li> <li>• Step 6: Resolve Impacts across the Architecture Landscape</li> <li>• Step 7: Conduct Formal Stakeholder Review</li> <li>• Step 8: Finalize the Business Architecture</li> <li>• Step 9: Create Architecture Definition Document</li> <li>• Summary of Building Block Usage in Phase B</li> <li>• Phase B: Outputs</li> <li>• Architecture Definition Document – Business Architecture Components</li> <li>• Architecture Requirements Specification—Business Architecture Components</li> <li>• Summary</li> <li>• Exercise</li> <li>• Phase B: Business Architecture</li> </ul>
Level 2 – Day 3	<b>M 17: Phase C: Information Systems Architectures</b>	<ul style="list-style-type: none"> <li>• Objectives</li> <li>• Information Systems Architectures—Objectives</li> <li>• Approach</li> <li>• Top-Down Design—Bottom-Up Implementation</li> <li>• Alternative Approach: Data-Driven Sequence Implementation</li> <li>• Approach: Architecture Repository</li> <li>• Considerations for Data Architecture</li> <li>• Phase C: Inputs</li> <li>• Steps in Phase C</li> <li>• Phase C: Outputs—Application Architecture</li> <li>• Summary</li> </ul>
Level 2 – Day 3	<b>M 18 A: Phase C: Data Architecture— Catalogs, Matrices and Diagrams</b>	<ul style="list-style-type: none"> <li>• Objectives</li> <li>• TOGAF 9 Artifacts</li> <li>• Catalogs, Matrices, and Diagrams</li> <li>• Catalogs</li> <li>• Exercise</li> <li>• Matrices</li> <li>• Data Entity/Business Function Matrix</li> <li>• Example Data Entity/Business Function Matrix</li> <li>• Application/Data Matrix</li> <li>• Example Application/Data Matrix</li> <li>• Diagrams</li> <li>• Conceptual Data Diagram</li> <li>• Logical Data Diagram</li> <li>• Data Dissemination Diagram</li> <li>• Data Dissemination Diagram—Example</li> <li>• Data Lifecycle Diagram</li> </ul>

		<ul style="list-style-type: none"> <li>• Data Security Diagram</li> <li>• Data Security Diagram—Example</li> <li>• Data Security Matrix—Example</li> <li>• Data Migration Diagram</li> <li>• Data Migration Diagram—Example</li> <li>• Data Migration Mapping—Example</li> <li>• Phase C: Data Architecture—Catalogs, Matrices, and Diagrams</li> </ul>
Level 2 – Day 3	<b>M 18: Phase C: Data Architecture</b>	<ul style="list-style-type: none"> <li>• Objectives</li> <li>• Data Architecture—Objectives</li> <li>• Phase C—Inputs</li> <li>• Steps in Data Architecture Phase</li> <li>• Step 1: Select reference models, viewpoints, and tools</li> <li>• TOGAF 9 Artifacts</li> <li>• Step 2: Develop a Baseline Data Architecture Description</li> <li>• Step 3: Develop Target Data Architecture Description</li> <li>• Step 4: Perform Gap Analysis</li> <li>• Step 5: Define Candidate Roadmap Components</li> <li>• Step 6: Resolve impacts across the Architecture Landscape</li> <li>• Step 7: Conduct Formal Stakeholder Review</li> <li>• Step 8: Finalize the Data Architecture</li> <li>• Step 9: Create Architecture Definition Document</li> <li>• Outputs of Data Architecture</li> <li>• Data Architecture Components—Architecture Definition Document</li> <li>• Data Architecture Components—Architecture Requirements Specification</li> <li>• Summary</li> <li>• Exercise</li> </ul>
Level 2 – Day 3	<b>M 19: The Integrated Information Infrastructure Reference Model</b>	<ul style="list-style-type: none"> <li>• Objectives</li> <li>• Key Business and Technical Drivers</li> <li>• Integrated Information Infrastructure Reference Model</li> <li>• TOGAF TRM</li> <li>• TOGAF TRM Orientations</li> <li>• Boundaryless Information Flow Focus</li> <li>• Integrated Information Infrastructure Reference Model—A High-level Model</li> <li>• Components of the III-RM</li> <li>• Components of the High-Level III-RM</li> <li>• Integrated Information Infrastructure Reference Model—A Detailed Model</li> <li>• Summary</li> <li>• Exercises</li> <li>• The Integrated Information Infrastructure Reference Model</li> </ul>
Level 2 – Day 3	<b>M 20 A: Phase C: Applications Architecture –</b>	<ul style="list-style-type: none"> <li>• Module Objectives</li> <li>• TOGAF 9 Artifacts</li> <li>• Catalogs, Matrices and Diagrams</li> <li>• Application/Organization Matrix</li> <li>• Example Application/Organization Matrix</li> </ul>

	<b>Catalogs, Matrices and Diagrams</b>	<ul style="list-style-type: none"> <li>• Role/Application Matrix</li> <li>• Example Role/Application Matrix</li> <li>• Application/Function Matrix</li> <li>• Diagrams</li> <li>• Application Communication Diagram</li> <li>• Application and User Location Diagram</li> <li>• Application Use Case Diagram Day 4</li> <li>• Enterprise Manageability Diagram</li> <li>• Process/Application Realization Diagram</li> <li>• Software Engineering Diagram</li> <li>• Application/Migration Diagram</li> <li>• Software Distribution Diagram</li> </ul>
<b>Level 2 – Day 3</b>	<b>M 20: Phase C: Applications Architecture</b>	<ul style="list-style-type: none"> <li>• Module Objectives</li> <li>• Phase C: Inputs: Application Architecture</li> <li>• Steps</li> <li>• Step 1: Select Reference Models, Viewpoints and Tools</li> <li>• TOGAF 9 Artifacts</li> <li>• Recommended Process</li> <li>• Step 1: Select Reference Models, Viewpoints, and Tools</li> <li>• Example – The Integrated Information Infrastructure Model</li> <li>• III-RM Business and Technical Drivers</li> <li>• III-RM Focus</li> <li>• III-RM High Level View</li> <li>• Step 2: Develop a Baseline Application Architecture Description</li> <li>• Step 3: Develop Target Application Architecture Description</li> <li>• Step 4: Perform Gap Analysis</li> <li>• Step 5: Define Candidate Roadmap Components</li> <li>• Step 6: Resolve Impacts Across the Architecture Landscape</li> <li>• Step 7: Conduct Formal Stakeholder Review</li> <li>• Step 8: Finalize the Application Architecture</li> <li>• Step 9: Create Architecture Definition Document</li> <li>• Phase C: Outputs: Application Architecture</li> <li>• Architecture Definition Document – Application Architecture Components</li> <li>• Architecture Requirements Specification – Application Architecture Components</li> <li>• Summary</li> </ul>
<b>Level 2 – Day 4</b>	<b>M 21: Foundation Architecture</b>	<ul style="list-style-type: none"> <li>• Module Objectives</li> <li>• TOGAF Foundation Architecture</li> <li>• Technical Reference Model Components</li> <li>• The Technical Reference Model</li> <li>• Taxonomy of Platform Services</li> <li>• Taxonomy of Application Platform Service Qualities</li> <li>• Availability</li> <li>• Assurance</li> <li>• Usability</li> <li>• Adaptability</li> <li>• Customizing the TRM</li> </ul>

		<ul style="list-style-type: none"> <li>• Summary</li> </ul>
Level 2 – Day 4	<b>M 22 A: Phase D: Technology Architecture – Catalogs, Matrices and Diagrams</b>	<ul style="list-style-type: none"> <li>• Module Objectives</li> <li>• TOGAF 9 Artifacts</li> <li>• Catalogs, Matrices, and Diagrams</li> </ul>
Level 2 – Day 4	<b>M 22:Phase D: Technology Architecture</b>	<ul style="list-style-type: none"> <li>• Module Objectives</li> <li>• Approach</li> <li>• Technology Architecture: Inputs</li> <li>• Steps</li> <li>• TOGAF 9 Artifacts</li> <li>• Technology Architecture Outputs</li> <li>• Architecture Definition Document – Technology Architecture Components</li> <li>• Summary</li> </ul>
Level 2 – Day 4	<b>M 23: Migration Planning Techniques</b>	<ul style="list-style-type: none"> <li>• Module Objectives</li> <li>• The Implementation Factor Assessment</li> <li>• The Consolidated Gaps, Solutions and Dependencies Matrix</li> <li>• Architecture Definition Increments table</li> <li>• The Transition Architecture State Evolution Table</li> <li>• The Business Value Assessment Technique</li> <li>• Summary</li> </ul>
Level 2 – Day 4	<b>M 24: Phase E: Opportunities and Solutions</b>	<ul style="list-style-type: none"> <li>• Module Objectives</li> <li>• Stakeholders</li> <li>• Approach</li> <li>• Phase E: Inputs</li> <li>• Steps</li> <li>• Phase E Outputs</li> <li>• Summary</li> <li>• TOGAF 9 Artifacts</li> <li>• Project Context Diagram</li> <li>• Benefits Diagram</li> </ul>
Level 2 – Day 4	<b>M 25: Phase F: Migration Planning</b>	<ul style="list-style-type: none"> <li>• Phase F Objectives</li> <li>• Approach</li> <li>• Phase F: Inputs</li> <li>• Steps</li> <li>• Phase F Outputs</li> <li>• Summary</li> <li>• M 26: Phase G: Implementation Governance</li> <li>• Module Objectives</li> <li>• Phase G Objectives</li> <li>• Approach</li> <li>• Phase G: Inputs</li> <li>• Steps</li> <li>• Phase G Outputs</li> <li>• Summary</li> </ul>

Level 2 – Day 4	<b>M 27: Phase H: Architecture Change Management</b>	<ul style="list-style-type: none"> <li>• Module Objectives</li> <li>• Phase H Objectives</li> <li>• Approach</li> <li>• Change Management Process</li> <li>• Maintenance versus Redesign</li> <li>• Change Impact Exercise</li> <li>• Phase H: Inputs</li> <li>• Change Requests</li> <li>• Steps</li> <li>• Phase H Outputs</li> <li>• Business Users’ Architecture Contract</li> <li>• Request for Architecture Work</li> <li>• Summary</li> </ul>
Level 2 – Day 4	<b>M 28: ADM Requirements Management</b>	<ul style="list-style-type: none"> <li>• Module Objectives</li> <li>• ADM Requirements Management</li> <li>• Requirements Development</li> <li>• Resources</li> <li>• Volère Requirements Specifications Template</li> <li>• Requirements Management: Inputs</li> <li>• Steps</li> <li>• Requirements Management: Outputs</li> <li>• Requirements Impact Assessment</li> <li>• Summary</li> </ul>
Level 2 – Day 4	<b>M 29: Architecture Partitioning</b>	<ul style="list-style-type: none"> <li>• Module Objectives</li> <li>• Partitioning</li> <li>• Preliminary Phase</li> <li>• Summary</li> </ul>
Level 2 – Day 4	<b>M 30: Guidelines for Adapting the ADM: Iteration and Levels</b>	<ul style="list-style-type: none"> <li>• Module Objectives</li> <li>• Iteration and Levels</li> <li>• Iteration and the ADM</li> <li>• Iteration to Manage the Architecture Capability</li> <li>• Approaches to Architecture Development</li> <li>• Classes of Architecture Engagement</li> <li>• A Hierarchy of ADM Processes</li> <li>• Architecture Development Iteration “Baseline First”</li> <li>• Architecture Development Iteration “Target First”</li> <li>• Transition Planning</li> <li>• Architecture Governance</li> <li>• Applying the ADM Across the Architecture Landscape</li> <li>• Summary</li> </ul>
Level 2 – Day 4	<b>M 31: Guidelines for Adapting the ADM: Security</b>	<ul style="list-style-type: none"> <li>• Module Objectives</li> <li>• Security and the ADM</li> <li>• Stakeholder Concerns</li> <li>• ADM Requirements Management</li> <li>• Preliminary Phase</li> <li>• Phase A – Architecture Vision</li> <li>• Phase B – Business Architecture</li> <li>• Phase C Information Systems Architectures</li> <li>• Phase D Technology Architecture</li> </ul>

		<ul style="list-style-type: none"> <li>• Phase E Opportunities and Solutions</li> <li>• Phase F Migration Planning</li> <li>• Phase G Implementation Governance</li> <li>• Phase H Architecture Change Management</li> <li>• Summary</li> </ul>
Level 2 – Day 4	<b>M 32: Guidelines for Adapting the ADM: SOA</b>	<ul style="list-style-type: none"> <li>• Module Objectives</li> <li>• What is Service Oriented Architecture?</li> <li>• Preliminary Phase</li> <li>• Phase A: Architecture Vision</li> <li>• Architecture Development: Phases B,C, and D</li> <li>• Summary</li> </ul>
Level 2 – Day 4	<b>M 33: Architecture Maturity Models</b>	<ul style="list-style-type: none"> <li>• Module Objectives</li> <li>• Capability Maturity Models</li> <li>• CMMI</li> <li>• US Department of Commerce ACMM</li> <li>• Maturity Assessments in the ADM</li> <li>• Summary</li> </ul>
Level 2 – Day 4	<b>M 34: Architecture Skills Framework</b>	<ul style="list-style-type: none"> <li>• Module Objectives</li> <li>• Roles</li> <li>• Purpose</li> <li>• Benefits of using the Architecture Skills Framework</li> <li>• The structure of the Architecture Skills Framework</li> </ul>
	<b>Reference Books:</b>	<ul style="list-style-type: none"> <li>• Enterprise Architecture from the Open Group (PDF). Shall be provided by the Faculty from OPEN GROUP, USA.</li> </ul>