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Module Title : IT Architect Core
Duration : 4 days

Course Description

As an IASA Foundation certified professional, you will be equipped with the foundational knowledge of being an IT Architect and be familiar and exposed to the skills and tools required by the IT Architect. Understanding of the 'Five Foundational Pillars' will sharpen the holistic view of thinking outside the box in decision making process or in solving business and technical issues. In addition, it will provide an appreciation and understanding of the value of IT initiatives in relation to the business capabilities and the significant success values of what an IT Architect can bring to the organization.

This foundation course evaluates and expounds on the fundamental understanding of Business Technology Strategy and the IT Architecture Body of Knowledge (ITABOK) by focusing on the essential building blocks required in the IT Architecture field that encompasses the following:

- Understanding the fundamentals on the five pillars of IT Architecture
- Distinguishing the key architecture concepts
- Defining industry frameworks and components alongside basic IT Architect skills
- Defining IT values and business capabilities for your organization

Audience

- Chief Architects
- Enterprise Architects
- Directors /Head of LOB (Line of Business)
- Business/System Analysts
- IT/Software/Infrastructure/Information/Business Architects
- Software Developers/Engineers
- Senior Programmers/Analysts
- IT / Project Managers

Prerequisites

Participants should also have an appreciation and a strong interest in pursuing IT Architecture knowledge, aspire to be an IT Architect or who is already an IT Architect but wish to pursue the next level of the Certified IT Architecture programs i.e IASA Associate Certified (IAC), Board Certified IT Architect Professional (CITA-P), and Board Certified IT Architect Master (CITA-M)

At Course Completion

The Architecture Core course will lead to the IASA Foundation Certified (IFC). Successful candidates can carry the qualification IFC logo to their name and use the IASA Foundation Certified logo. With this certification, the avenue is now open for the IASA Associate Certified (IAC), the Board CITA-P (Certified IT Architect) Professional and ultimately the Board CITA-M (Certified IT Architect) Master as reflected in the IT Architecture career map. These programs will become stepping stones in your IT Architecture career, providing you with the continued standards available in the IT Architecture Body of Knowledge.

Course Outline

Day 1:

Course Overview & Introduction

Module 1: IT Architecture & IT Architects Overview

Lesson 1-1: How IASA identified foundation pillars that support IT Architecture

- IT Architecture Skills Survey

Lesson 1-2: What Are IT Architecture and IT Architect?

- IT Architecture Definition
- IT Architect as a Technology Strategist

Lesson 1-3: What are the Values of IT Architecture?

- IT Architecture Return of Investment Model (ITA-ROI)

Workshop 1: Presenting & Justifying IT Architecture for The Business

Module 2: Design Overview

Lesson 2-1: Design from an IT Architecture Perspective

- Design Definition and Implication

Lesson 2-2: Design Pillars in Detail

- Definition, Concept & Knowledge Areas of Whole System Design

- Definition, Concept & Knowledge Areas of Design Methodologies & Processes
- Definition, Concept & Knowledge Areas of Requirement Modeling

Lesson 2-2: Design Pillars in Detail Cont…

- Definition, Concept & Knowledge Areas of Design Patterns & Style
- Definition, Concept & Knowledge Areas of IT Architecture Description
- Definition, Concept & Knowledge Areas of Views & Viewpoints
- Definition, Concept & Knowledge Areas of Traceability Throughout the Lifecycle

Workshop 2: Addressing and Applying Design skills

Module 3: IT Environment Overview

Lesson 3-1: The important of IT Environment Skills

Lesson 3-2: IT Environment Skills in Detail

- Definition, Knowledge Areas & Class Discussion 1: Application Development
- Definition, Knowledge Areas & Class Discussion 2: Infrastructure
- Definition, Knowledge Areas & Class Discussion 3: Technical Project Management
- Definition, Knowledge Areas & Class Discussion 4: Platform and Frameworks
- Definition, Knowledge Areas & Class Discussion 5: Change Management
- Definition, Knowledge Areas on Change Management
- Definition, Knowledge Areas & Class Discussion 6: IT Governance
- Definition, Knowledge Areas & Class Discussion 7: Testing Methods, Tools and Techniques

Workshop 3: Leveraging and Applying IT Environment Skills

Module 4: Quality Attributes Overview

Lesson 4-1: The important of Quality Attributes IT Skills

- Definition, Knowledge Areas & Class Discussion 8: Quality Attributes

Lesson 4-2: Quality Attributes Skills in Detail

- Definition, Characteristics & Grouping
- Definition, Concepts & Knowledge Areas of Monitoring & Managing
- Definition, Concepts & Knowledge Areas of Security
- Definition, Concepts & Knowledge Areas of Performance, reliability, Availability & Scalability
- Definition, Concepts & Knowledge Areas of Accessibility, Personality & Localization
- Definition, Concepts & Knowledge Areas of Flexibility, Customizability, Supportability, Maintainability & Extensibility
- Definition, Concepts & Knowledge Areas of Quality Attributes Trade-off Metrics

Workshop 4: Applying & Presenting Quality Attributes Tradeoff Analysis

Day 2:

Module 5: Business Technology Strategy Overview

Lesson 5-1: Business Technology Strategy Skills Definition

- Characteristics of IT Architecture Strategy
- IT Architecture Roles as Strategies

Lesson 5-2: Business Technology Strategy Skills in Detail

- Definition, Knowledge Areas & Class Discussion 9: Business Fundamentals
- Definition, Knowledge Areas & Class Discussion 10: Strategy Rationalization and Development
- Definition, Knowledge Areas & Class Discussion 11: Business Valuation
- Definition, Knowledge Areas & Class Discussion 12: IT Architecture Methods and Tools
- Definition, Knowledge Areas & Class Discussion 13: Requirements Discovery and Constraints Analysis
- Definition, Knowledge Areas & Class Discussion 14: Investment Prioritization and Planning
- Definition, Knowledge Areas & Class Discussion 15: Knowledge Management
- Definition, Knowledge Areas & Class Discussion 16: Decision Support
- Definition, Knowledge Areas & Class Discussion 17: Compliance

Lesson 5-2: Business Technology Strategy Skills in Detail Cont…

- Definition, Knowledge Areas & Class Discussion 18: Industry Analysis

Workshop 5: Developing and Presenting Technology Strategy for the Business

Module 6: Human Dynamics Overview

Lesson 6-1: Human Dynamics Skills Overview

- Human Dynamics Building Blocks & Taxonomy

Lesson 6-2: Human Dynamics Skills in Detail

- Definition, Concept & Knowledge Areas of Presentation (ICEPAC)
- Definition, Concept, Knowledge Areas & Class Discussion 19: Customer Relationship
- Definition, Concept & Knowledge Areas of Leadership and Management
- Definition, Concept & Knowledge Areas of Writing
- Definition, Concept & Knowledge Areas of Peer Interaction
- Definition, Concept & Knowledge Areas of Collaboration and Negotiation
- Definition, Concept & Knowledge Areas of Managing the Culture

Workshop 6: Mastering and Applying Human Dynamics skills

Day 3:

Module 7: IT Architecture Project Selection Overview

Lesson 7-1: IT Architecture Engagement Model Expanded

- IT Architect Engagement Values
- Principles & Components of IT Architect Engagement
- The Scope of IT Architect Engagement

Lesson 7-2: IT Architecture Business Case

- The Template for Business Case
- The Business Case Review Process

Lesson 7-3: Create a Business Case

- IT Architecture Led-Activities

Workshop 7: Reviewing Business Case

Lesson 7-4: Calculate and Communicate Value

- Understanding Tangible and In-Tangible values
- Algorithms in Calculating Values

Workshop 8: Calculating and Communicating Value

Lesson 7-5: Prioritize IT Projects

- Investment Planning & Project Prioritization
- Example of Engagement Artifacts

Workshop 9: Prioritizing and Selecting IT Project

Lesson 7-6: Assign the IT Architecture Team

- The Reality in the IT Architecture Assignment
- The Involvement with Pro-Active Assignment
- The IT Architecture Governance Mechanism

Module 8: IT Architecture Creation Overview

Lesson 8-1: Capture and Analyze Requirements

- IT Architects' Involvement
- Requirements Categorization & Checklist

Workshop 10: Scoping, Requirements & Constraints

Lesson 8-2: Generic IT Architecture

- Generic IT Architecture Overview and Justification
- Logical IT Architecture Creation and IT Architecture Toolbox

Lesson 8-3: Product Specific IT Architecture

- The Rationale for Product Specific Architecture
- The Documentation and Analysis of IT Architecture

Lesson 8-4: Create Views and Viewpoints

- The Concept and Dictionary of View & Viewpoints

- Views and Viewpoints Definition

Module 9: IT Architecture Delivery Overview

Lesson 9-1: Create Stakeholders Communication

- Stakeholders Communication and Analysis
- Stakeholders Understanding & Prioritization
- Management of Stakeholders

Workshop 11: Managing Stakeholders

Day 4:

Module 9: IT Architecture Delivery Overview

Lesson 9-2: Modify and Update IT Architecture Artifacts

- Artifacts Creation and Longevity
- Artifacts Repository

Workshop 12: Modifying and Updating Artifacts

Lesson 9-3: Manage Delivery

- The Management and Delivery of IT Architecture
- The Components and Optimization of IT Architecture Delivery

Workshop 13: Managing IT Architecture Delivery

Lesson 10-1: Review and Analyze Values

- IT Architecture Review Process
- Workshop 14: Reviewing and Analyzing Values across IT Projects

Lesson 10-2: Set IT Architecture Goals

- Process in Setting IT Architecture Goals

Workshop 15: Setting IT Architecture Goals

Module 10: IT Architecture Management Overview

Lesson 10-3: Update Engagement Model

- Principles and Values of Engagement Model
- Components of Engagement Model

Workshop 16: Updating Engagement Model

Module 10: IT Architecture Management Overview

Lesson 10-4: Communicate Value

- Capture, Display, Communicate & Review Value

Workshop 17: Communicating Values

- Conclusion, Wrap-Up and Next Step
- IASA Foundation Certified Exam – 2 hours