GEMRAIN CONSULTING

IT ARCHITECTURE CORE (ITAC)
Duration: 4 days; Instructor-led

KEY CONTENT

Day 1

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

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

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
  - o IT Architects' Involvement
  - o Requirements Categorization & Checklist
- Workshop 10: Scoping, Requirements & Constraints
- Lesson 8-2: Generic IT Architecture
  - o Module 8: IT Architecture Creation Overview
  - o Generic IT Architecture Overview and Justification
  - o Logical IT Architecture Creation and IT Architecture Toolbox
- Lesson 8-3: Product Specific IT Architecture
  - o The Rationale for Product Specific Architecture
  - o The Documentation and Analysis of IT Architecture
- Lesson 8-4: Create Views and Viewpoints
  - o The Concept and Dictionary of View & Viewpoints
  - o Views and Viewpoints Definition

Module 9: IT Architecture Delivery Overview
- Lesson 9-1: Create Stakeholders Communication
  - o Stakeholders Communication and Analysis
  - o Stakeholders Understanding & Prioritization
  - o Management of Stakeholders
- Workshop 11: Managing Stakeholders

Day 4

Module 9: IT Architecture Delivery Overview
- Lesson 9-2: Modify and Update IT Architecture Artifacts
  - o Artifacts Creation and Longevity
  - o Artifacts Repository
- Workshop 12: Modifying and Updating Artifacts
- Lesson 9-3: Manage Delivery
  - o The Management and Delivery of IT Architecture
  - o The Components and Optimization of IT Architecture Delivery
- Workshop 13: Managing IT Architecture Delivery
- Lesson 10-1: Review and Analyze Values
  - o IT Architecture Review Process
- Workshop 14: Reviewing and Analyzing Values across IT Projects
- Lesson 10-2: Set IT Architecture Goals
  - o Process in Setting IT Architecture Goals
- Workshop 15: Setting IT Architecture Goals

Module 10: IT Architecture Management Overview
- Lesson 10-3: Update Engagement Model
  - o Principles and Values of Engagement Model
  - o Components of Engagement Model
- Workshop 16: Updating Engagement Model
- Lesson 10-4: Communicate Value
  - o Capture, Display, Communicate & Review Value
- Workshop 17: Communicating Values
- **Conclusion, Wrap-Up and Next Step**
- **IASA Foundation Certified Exam – 2 hours**