

Service Governance Specialist

OEM: Arcitura • Duration: 3 Days (24 hrs) • Code: S90.SGO

COURSE MODULES & TOPICS

Module 1: Fundamental SOA, Services & Microservices

- Business and Technology Drivers for SOA, Services and Microservices
- Strategic Goals and Benefits of Service-Oriented Computing
- Plain English Introduction to Services and Microservices
- Fundamental Characteristics of a Service-Oriented Architecture
- Understanding Service-Oriented as a Design Paradigm, including coverage of the Four Pillars of Service-Oriented
- Introduction to Service Layers, Service Models and Service Compositions
- Service Inventories, Service Layers and Service API Governance and Management
- Introduction to Common Service Technologies, including API Gateways, Virtualization, Containerization
- Introduction to Cloud Computing and Cloud Services
- Adoption Impacts and Requirements, including considerations for Governance, Infrastructure, Performance and Standardization

Module 3: Design & Architecture with SOA, Services & Microservices

- Fundamental Application Design with SOA
- Service-Oriented vs. “Silo”-Based Design
- Service-Oriented Application Design with Microservices
- Understanding Services and Service Capabilities
- Understanding the Functional Context of Microservices
- Complex Service Composition Design, Composition Runtime Roles and Responsibilities
- Composition with Microservices
- Distinguishing Characteristics of the SOA Model
- The Eight Design Principles of Service-Oriented
- Contract-First Design, Standardized Service Contracts and Uniform Contracts
- Service Loose Coupling and Coupling Types, Service Abstraction and Information Hiding
- Service Reusability and Agnostic Design, Service Autonomy and Runtime Control
- Service Statelessness and State Deferral, Service Discoverability and Interpretability
- Design Guidelines for REST Services
- Design Guidelines for Web Services
- Design Guidelines for Microservices

Module 15: Fundamental Service Governance & Project Delivery

- Service Project Delivery Methodologies (including top-down and agile delivery)
- Understanding Service Governance Programs, Models, and Controls
- Authoring Service Governance Precepts, Policies, and Regulations
- Identifying and Defining Organizational Roles in Relation to Governance Tasks
- Defining Service Governance Processes to Coordinate Precepts and Roles
- Service Vitality Triggers and Processes
- Establishing a Governance Program
- Governance Automation Tasks and Technology Types
- Common Service Governance Technology Products
- Basic Service Information Governance and Policy Governance
- Governing SOA Adoption Planning

Module 16: Advanced Service Governance & Project Delivery

- Governing Service Analysis and Design
- Governing Service Design and Development
- Service Logic Design and Programming Reviews, Legal Data Audit
- Governing Service Testing and Deployment
- Service Testing Standards, Cloud Integration Testing, Service Certification and Maintenance Reviews
- Governing Service Usage, Monitoring, Discovery, and Versioning
- Runtime Service Usage Thresholds, Service Registry Centralization and Review
- Service and SLA Versioning, Service Retirement
- Advanced Service Information and Service Policy Governance
- Mapping Precepts, Processes and Organizational Roles
- Service Contract and Schema Precepts and Reviews

Module 17: Service Governance & Project Delivery Lab

- Reading Exercise 17.1: MLI Mini Case Study Background
- Lab Exercise 17.2: Organizational Assessment and Jurisdiction Model
- Lab Exercise 17.3: Service Information Governance Controls
- Lab Exercise 17.4: Define Vitality Triggers
- Lab Exercise 17.5: Complete Vitality Process
- Reading Exercise 17.6: TFC Mini Case Study Background
- Lab Exercise 17.7: Improving a Flawed Governance Precept
- Lab Exercise 17.8: Identify Missing Governance Controls
- Lab Exercise 17.9: Identify and Apply New SOA Governance Controls
- Lab Exercise 17.10: Automate SOA Governance Tasks
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