

A Modular Training Program for Rolling out SOA across Your Enterprise

Service Oriented Architecture (SOA) and Web Services for Enterprise

- Course Outline -

STEP # 1 Introductory Briefing – Two (2) hours

A Practical Briefing & Discussion Session for all – A two-hour interactive session to engage every practitioner in your organization or company. This session covers the practicality of SOA and gets your team focused on service orientation.

STEP # 2 Readiness Evaluation – Establishing your learning needs – FREE CONSULTATION – Two (2) hours

STEP # 3 Building Service Oriented Architecture for Your Enterprise: A modular, iterative and incremental rollout – A series of ten (10) sessions for team based learning and discussion, filled with appropriate lab exercises – These sessions can be customized to fit your team needs and initiatives – **Fourteen (14) – Sixteen (16) hours**

Attendees					
	Executives	Managers	Architects	Analysts & Designers	Developers
1	Foundation	Foundation	Foundation	Foundation	Foundation
2	Practical Concepts	Practical Concepts	Practical Concepts	Practical Concepts	Practical Concepts
3	Getting Started	Getting Started	Getting Started	Getting Started	Getting Started
4	Adopting SOA & Web Services	Adopting SOA & Web Services	Adopting SOA & Web Services	Analyzing SOA & Web Services	Designing SOA & Web Services
5	Formalizing SOA & Web Services Strategies	Readying an Organization for SOA	Architecting SOA & Web Services	Designing SOA & Web Services	Developing SOA & Web Services
6	Incorporating Best Practices, Patterns & Frameworks	Incorporating Best Practices, Patterns & Frameworks	Incorporating Best Practices, Patterns & Frameworks	Incorporating Best Practices, Patterns & Frameworks	Incorporating Best Practices, Patterns & Frameworks
7	Building Center of Excellence for SOA Initiatives	Using Industry Standards, Mandates & Regulations	Using Industry Standards, Mandates & Regulations	Using Industry Standards, Mandates & Regulations	Using Industry Standards, Mandates & Regulations
8	Governing SOA & Web Services Initiatives	Integrating Web Services to SOA	Integrating Web Services to SOA	Realizing the SOA & Web Services	Integrating Web Services to SOA
9	Rolling out SOA in the Enterprise	Deploying SOA & Web Services	Deploying SOA & Web Services	Deploying SOA & Web Services	Deploying SOA & Web Services
10	Making SOA Initiatives Work	Managing SOA Initiatives	Managing SOA Initiatives	Managing SOA Initiatives	Managing SOA Initiatives

KEY TOPICS FOR DISCUSSION

1. FOUNDATION

- What is SOA? What does it mean to you? Why should you care?
- What are the primary benefits of SOA? How do we achieve these benefits?
- How do web services fit into SOA?

2. PRACTICAL CONCEPTS

- How do various SOA components work and how should you identify these elements?
- How do Web services work and what should you know about them?
- Practical approach behind building SOA – and what should you be aware of?

3. GETTING STARTED

- What do you need to know before you start with SOA?
- What are the basic ingredients that you need to get started with SOA?
- What is your approach to SOA and why? Differences between top-down and bottom-up approaches

4. ADOPTING SOA AND WEB SERVICES

- SOA adoption lifecycle, phases, and principles
- Roles and responsibilities for adoption
- SOA adoption and Adaptation to SOA and Web services

4A. ANALYZING SOA AND WEB SERVICES

- Identifying SOA and Web services elements
- Understanding business drivers for SOA initiatives
- Transforming business processes to define SOA and integrating Web services to SOA

4B. DESIGNING SOA AND WEB SERVICES

- Guidelines for service-oriented design – principles and complexities
- RESTFUL design of SOA services
- Defining WSDL and SOAP schemas

5. FORMALIZING SOA AND WEB SERVICES STRATEGIES

- How do you identify the risks behind considering SOA?
- What do you do to mitigate or alleviate such risks?
- How do you formalize your approach to use SOA and Web services?

5A. READINGY AN ORGANIZATION FOR SOA

- Industry trends and best practices for SOA
- Evaluating the existing knowledgebase for SOA
- Preparing a practice to accept and apply SOA in various enterprise integration initiatives

5B. ARCHITECTING SOA AND WEB SERVICES

- Establishing layers and tiers of SOA
- Starting with a 4+1 view model to architect SOA
- How do you apply various architectural principles for SOA and use relevant patterns?

5C. DEVELOPING SOA AND WEB SERVICES

- Moving forward – from design to development – model driven approach
- Steps for developing Web services and SOA
- Applying proven development principles for reuse across SOA initiative

6. INCORPORATING BEST PRACTICES, PATTERNS AND FRAMEWORKS

- Recognizing the industry best practices, patterns, reference models, and frameworks for SOA
- Applying SOA best practices, and patterns
- Benefits and Impacts of frameworks

7. BUILDING CENTER OF EXCELLENCE FOR SOA INITIATIVES

- Understanding the needs and benefits of SOA Center of Excellence (CoE)
- What are basic objectives of establishing SOA CoE and how do plan to achieve them?
- Practical principles and their implementation in building SOA CoE

7A. USING INDUSTRY STANDARDS, MANDATES AND REGULATIONS

- Effective steps to use industry standards, regulatory mandates and corporate policies
- Defining service level agreements (SLAs)
- Incorporating essential policies and procedures

8. GOVERNING SOA AND WEB SERVICES INITIATIVES

- Defining SOA governance model - various elements
- Various stages of SOA governance – differentiating design and run-time issues
- Employing SOA governance best practices

8A. INTEGRATING WEB SERVICES TO SOA

- Setting the context for SOA and Web services
- Understanding the business impacts of SOA
- SOA Enablement and the role of ESB
- Transforming legacy applications to SOA

8B. REALIZING THE SOA AND WEB SERVICES

- SOA lifecycle – Phases and stages
- Resolving complexities and challenges of SOA
- How do you select your candidate SOA projects?
- Realizing most benefits from your SOA projects

9. ROLLING OUT SOA ACROSS THE ENTERPRISE

- Creating SOA roll-out strategy
- Relevant business drivers and their impacts
- Preparing SOA roll-out roadmap
- Setting and meeting right expectations

9A. DEPLOYING SOA AND WEB SERVICES

- Identifying right risks and right time
- Getting right resources and stakeholders involved
- Implementing right steps for SOA deployment

10. MAKING SOA INITIATIVES WORK FOR THE ENTERPRISE

- Getting started with right services
- Building up right development skills
- Measuring the progress with SOA initiatives

10A. MANAGING SOA INITIATIVES

- Establishing the metrics to manage SOA initiatives
- Creating a SOA transition plan for your enterprise
- Making smart decisions with SOA initiatives
- Taking advantages of SOA governance

Please contact Dr. Tushar K. Hazra for scheduling, customization, and pricing of the course. Dr. Hazra can be reached at (443)540-2230 via phone and at tkhazra@epitomione.com via e-mail.