

Service-Oriented Architecture (SOA) and The Principles of Service Orientation

Duration

2 days

Instructors

Sam Rostam

Class Limit

20 students

Prerequisite

None

Price

• *On-site delivery*

Please contact SPC for pricing

(contact information on page 2)

• *Public Training*

\$1,095 (2 days)

*Discount available for early registration

Materials Provided

- Student manual containing the course slides
- Student handouts with class exercises

Overview

Driven by the emergence of XML and Web Services, and further influenced by distributed computing and BPM, Service-Oriented Architecture has evolved to represent the IT industry's foremost computing platform.

Service-Oriented Architecture (SOA) is focused on creating a concept, technology, and process framework that will allow enterprises to develop, interconnect, and maintain enterprise applications and services efficiently and cost-effectively. While this goal is not new, SOA seeks to eclipse previous efforts such as modular programming, code reuse, and object-oriented software. SOA is designed to allow developers to overcome many complex implementation challenges such as distributed software, application integration, multiple platforms and protocols, and numerous access devices, while leveraging the potential of the Internet. The driving goal of SOA is to eliminate these barriers so that applications integrate and run seamlessly.

In order to best leverage the benefits SOA, you need to attain a knowledge of what a contemporary SOA platform is comprised of, and how SOA is distinguished from previous distributed architectures. Further, you need to understand what service-orientation is, and how it imposes unique requirements on the design of services and service-oriented solutions.

This seminar will assist you in attaining this understanding. It covers a wide variety of topics to provide you with a well-rounded knowledge of the multifaceted SOA platform.

Intended Audience

This seminar will be of interest to architects, analysts, technical IT managers, and any other IT professionals who want to gain a better understanding of SOA and service-orientation. A broad range of topics will be covered to provide attendees with a well-rounded, foundation-level knowledge of the concepts and technologies that comprise this new platform.

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Instructor

Sam Rostam is Sun certified as a Java Enterprise Instructor and Scalable Internet Architect and Trainer for Forte. He has taught courses at many Fortune 500 companies across North America. Most recently as a Senior Consultant at Sun Microsystems Palo Alto CA, he focused on Systems Integration, SOA, eBusiness & Enterprise Systems Architecture in Java/XML and Forte. Engagements included projects at Motorola, TransCanada Pipeline, Bank of America, HP, US West, Airborne Express, US Air force, GM and Applied Materials.

Sam holds certifications on adult learning and effective teaching techniques as well as Sun/iPlanet certifications on eBusiness infrastructure and systems integration using XML, Java, LDAP and Portals. He holds an MSc from SFU and studied in a PhD program at UBC.

With over 18 years experience as a trainer, an educator, software engineer and an enterprise systems consultant, Sam brings a unique perspective for effective learning. His teaching experience includes BCIT, SFU, TechBC and UBC.



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Outline

- Fundamental Business Drivers
- Service-Oriented architecture basics
- Comparing SOA to past architectural platforms
- Challenges in building SOA solutions
- Principles of Service-Orientation
- Fundamental Service-Oriented Analysis/ Design
- Service Abstraction Layers
- Business-centric Services
- Adapting a Service-Oriented Architecture
- SOA Platforms

Further this seminar provides an introduction to a cross-section of key Web Services technologies, including:

- SOAP, Axis, JWSDP
- WSDL (Web Services Description Language)
- Enterprise Service Bus
- BPM & BEPL
- WS-Security Services
- WS-ReliableMessaging
- WS-MetadataExchange



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