



## SOA and Service Infrastructure Curriculum

### ARCHITECTURAL CONCEPTS

# SOA: Architectural Concepts and Design Principles

#### Course Details:

Course ID: SOA-R71-XX  
Format: Instructor-led Training  
Length: 4 days

#### How to Enroll:

Americas:  
Web: <http://education.bea.com>  
Email: [education@bea.com](mailto:education@bea.com)  
Phone: 1-800-232-4858

Europe:  
Email: [education.emea@bea.com](mailto:education.emea@bea.com)  
Phone: +44-1494-559500

Asia Pacific:  
Email: [edu-apac@bea.com](mailto:edu-apac@bea.com)  
Phone: +852-2290-9233

After taking the **SOA: Architectural Concepts and Design Principles** course, students will have the skills to:

- Apply key Service-Oriented Architecture (SOA ) principles to their current SOA adoption plans
- Understand the scope and characteristics of SOA service infrastructure
- Understand the design principles associated with SOA common infrastructure and shared services

#### Course highlights

This course covers the key concepts and issues associated with the adoption of a service-oriented architecture, including SOA principles, service design and infrastructure. It will explore the definitions and principles of each type of fundamental shared service to include presentation, business, and data services. Additionally, the course explores SOA runtime governance, service bus, service registry, security and service monitoring issues.

*Note: This course is a combination of:*

- *Organization, Planning and Architectural Considerations for SOA (SOA-B02)*
- *SOA: Architectural Concepts of Service Design (SOA-R53)*
- *SOA: Architectural Concepts of Service Infrastructure (SOA-R55)*

#### Who should attend this course

- Application architects
- Service engineers
- IT managers
- Enterprise architects
- Developers

#### Prerequisites

- Fundamental background in Information Technology
- Familiarity with software development projects
- Experience with enterprise architecture
- Experience with software design and basic design patterns
- Experience with software development projects

### Skills you will learn

- Be familiar with BEA's Domain Model for SOA
- Understand the principles of design using a layered services architecture
- Be familiar with the characteristics of a data service, shared business service, and presentation service
- Understand the principles of design using an SOA Enterprise Reference Architecture for shared services access
- Understand the security issues for shared services within an enterprise SOA
- Describe SOA runtime governance and service lifecycle management
- Understand BEA product mapping strategies as they relate to shared service access, governance, security, and service management

### Topics covered

- SOA Enterprise Reference Architecture
- SOA costs and benefits
- SOA organization and governance
- Service layers and types review
- Service design considerations
- Composite application concepts
- Design considerations in using an SOA service registry, ESB, and security services infrastructure
- Service lifecycle and management considerations
- Essential BEA product mappings for service infrastructure

### Additional courseware of interest

#### STRATEGIC CONCEPTS

- SOA Organization and Governance (SOA-B03S)
- SOA Costs and Benefits (SOA-B04S)

### Additional courseware of interest

#### STRATEGIC CONCEPTS

- SOA Reference Architecture (SOA-R57S)
- SOA Service-Oriented Development of Applications (SOA-R59S)

### About BEA Education Services

BEA Education Services' Liquid Learning approach helps an organization realize the benefits of open standards, web services and Service-Oriented Architecture. It offers flexible learning options and comprehensive curriculum based on real-world experience. Your team will reap measurable results and get moving in the right direction from day one, allowing you to invest in their skills with confidence. BEA has trained over 100,000 professionals world-wide and is rated #1 by customers in education satisfaction and loyalty.

### About BEA

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BEA Systems, Inc.

2315 North First Street  
San Jose, CA 95131  
+1.800.817.4BEA (US)  
+1.408.570.8000

[bea.com](http://bea.com)

