



Training

Module 3: SOA Design & Architecture (1 day)

This important module explores the service-oriented architectural model and the service-orientation design paradigm, decomposing fundamental architectural elements and defining the unique dynamics that constitute service-oriented solution logic.

The principles of service-orientation are described and discussed individually as well as collectively to convey a better understanding of the unique aspects of the paradigm as a whole.

Service compositions and service-oriented solution design are then covered in-depth, with an emphasis on runtime roles services assume through participation in compositions, and the various design considerations that go into delivering services as effective composition members.

Attendees participate by completing a series of hands-on exercises that test their knowledge of key topics. Further in-class reading provides a real-world context through the use of case study examples.

The following primary topics are covered:

- A Brief History of SOA and Service-Orientation
- Fundamental SOA Theory
- Service-Orientation vs. "Silo" based Application Design
- The Service-Oriented Architectural Model
- The Enterprise Service Bus Architectural Model
- Complex Service Composition Design
- Composition Runtime Roles and Responsibilities
- The Service-Orientation Design Paradigm
- Standardized Service Contract Design
- 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 Management Deferral
- Service Discoverability and Interpretability



Training

- Service Composability
- Results of Applying Service-Oriented

All course materials are printed in full-color and additional reference textbooks are also supplied, as required.

This is also a credit course for the SOA Certification Program and optional testing is available. For more information about certification and for descriptions of additional courses, visit www.soaschool.com or www.soatraining.com.

