# SOA Overview for Non-Technical Managers

## Course Summary

### Description

This course provides, at a high level, coverage of practical issues for enterprise applications relative to SOA. The goal of this course is to empower students with the knowledge and foresight they need to relate to and understand of SOA-based business application projects. In addition, there is a review of topics such as Enterprise Service Bus (ESB), the Business Process Execution Language (BPEL), SOAP, Web Services Description Language (WSDL), and Web Services.

### Objectives

At the end of this course, students will be able to:

- Explain the concepts behind a SOA
- Discuss how a common framework is embodied in both a technical infrastructure and an organizational entity in the form of governance
- Understand the history of services-oriented architecture and what design processes led up to SOA
- Discuss the challenges to adopting SOA in the enterprise
- Explain how Enterprise Application Integration affects the reuse of existing applications
- Understand the importance of business process modeling
- Relate a SOA maturity model and adoptance process to where an organization currently is and where they are trying to go
- Discuss how the concept of event-driven processing relates to business processes, workflow, and service orchestration

### Topics

- SOA Overview
- SOA: the Business Proposition
- SOA Best Practices
- Mapping Frameworks to SOA

### Audience

Students should have a minimum of 2 years working knowledge in the IT industry. A basic understanding of software development and web-based applications is necessary. Actual development working knowledge is helpful but not necessary.

### Prerequisites

This an overview level SOA training course, designed for people who need to understand and manage existing or upcoming SOA projects. Experience with managing and working with enterprise applications will be helpful. We will explore the terminology, the specification, the processes and technologies specific to SOA.

### Duration

One half day

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## Course Outline

**I. SOA Overview**
- A. Service Defined
- B. SOA Defined
- C. Organizational Framework
- D. Technical Framework
- E. Orchestration
- F. Reusability
- G. Services vs. SOA
- H. SOA in the past
- I. What is new in SOA
- J. Business impact/ROI
- K. Myths/Reality
- L. Adoption issues

**II. SOA: the Business Proposition**
- A. Drivers for business-orientation
- B. Accessible Services and Data
- C. Leveraging business processes
- D. Leveraging legacy applications
- E. Challenges to adoption
- F. Role of governance
- G. What needs to be governed and what is already governed?
- H. Governing IT vs. SOA
- I. Continuous improvement
- J. Strategies
- K. Role of an ESB
- L. Overview
- M. Role in SOA
- N. Scenarios and Analysis
- O. Strategies
- P. SOA Maturity Model
- Q. SOA Adoption

**III. SOA Best Practices**
- A. Planning
- B. Standardizing
- C. Designing
- D. Managing
- E. Implementing

**IV. Mapping Frameworks to SOA**
- A. SOA Concepts and .Net
- B. SOA Concepts and JEE

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