

## Oracle SOA Suite 12c: Essential Concepts Ed 2

**Duration:** 3 Days

### What you will learn

This Oracle SOA Suite 12c: Essential Concepts Ed 2 training introduces you to Service-Oriented Architecture (SOA) concepts, the SOA approach to development and integration and the functionality of the core components of SOA Suite 12c. Expert Oracle University instructors will help you use Oracle SOA Suite 12c to build enterprise applications that provide solutions to business problems. **Learn To:** Integrate business services using SOA approach. Describe the functionality and features of core service components in Oracle SOA Suite 12c. Explain the context of using each core service component of SOA Suite. Address business challenges. Understand how a SOA composite application is constructed in JDeveloper. **Benefits to You** By taking this course, you'll develop the skills to integrate your organization's applications into agile, reusable, service-based connectivity to reduce risk and respond faster to business requirements. Become more knowledgeable about SOA to help support your organization's SOA implementation.

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### Related Training

#### *Required Prerequisites*

Understanding of web service concepts such as WSDL, SOAP

#### *Suggested Prerequisites*

XML Fundamentals Ed 1.1

### Course Objectives

Describe SOA concepts and technologies

Describe the business benefits of adopting SOA in your organization

Describe the functionality and features of core service components in Oracle SOA Suite 12c

Explain the context of using each core service component

and business challenges they address

Describe the make-up of a SOA composite application

Explain how to virtualize and secure services

Describe how Oracle SOA provides customers real-time insight into their business

Describe how Oracle SOA simplifies integration with external trading partners and with cloud-based and mobile applications

## Course Topics

### Service-Oriented Architecture Concepts

What is SOA?

About SOA building blocks

How to adopt SOA?

Discussing SOA standards

### Getting Started with Oracle SOA Suite 12c

About SCA service components supported in Oracle SOA Suite 12c

Explaining product components in Oracle SOA Suite 12c

Discussing management tools of Oracle SOA Suite 12c

### Building SOA Composite Applications

About XML basics

Describing composite applications and service components according to Service Component Architecture (SCA)

About service design principles

Getting started with SOA composite application implementation in JDeveloper

### Orchestrating Services with BPEL Process Components

About BPEL concepts and BPEL process features

Discussing basic programming constructs of a BPEL process

Communicating message data by using variables in the BPEL process

Consuming web services

Developing a BPEL process by using the BPEL process template provided by BPEL Process Designer

### Connecting with Binding Components

Explaining Binding components

Describing JCA adapters

Describing REST adapter

## **Mediating Messages with Mediator Components**

- Discussing functionality and features of a Mediator component
- Discussing context of using a Mediator component
- Configuring a Mediator component with routing rules

## **Encapsulating Business Logic with Business Rules Components**

- Defining business rules
- Using Business Rule service components in SOA Composites
- Editing business rules by using SOA Composer

## **Implementing Human Activities with Human Workflow Components**

- Discussing Human Workflow service concepts
- About Human Workflow architecture
- Creating and defining Human Tasks
- Integrating the Human Task service component in the BPEL process

## **Virtualizing and Securing Services**

- Discussing concepts of Enterprise Service Bus
- Explaining functions performed by Oracle Service Bus
- Creating and configuring services in Oracle Service Bus
- Securing a SOA composite application

## **Managing, Monitoring and Troubleshooting Composite Application**

- About SOA composite application management
- Deploying a SOA application
- Monitoring composite instances
- Discussing fault handling
- Monitoring business activities

## **Enabling On-Premises Integration**

- How Oracle B2B is integrated with Oracle SOA to enable electronic document exchange between business partners?
- How Oracle MFT works with Oracle SOA to handle file transfers?

## **Enabling Mobile and Cloud Integration**

- How SOA Suite simplifies mobile integration?
- How SOA Suite simplifies cloud integration?