

Course Outline

Oracle SOA Suite 12c: Essential Concepts Ed 1

Duration: 3 days (18 hours)

Learning 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

Target Audience:

- SOA Architect
- Business Analysts
- Application Developers
- Project Manager

Prerequisites:

- Understanding of web service concepts such as WSDL, SOAP

Topics Covered:

- 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?