Oracle SOA Suite 12c: Essential Concepts Ed 1

Duration: 3 Days

What you will learn

This Oracle SOA Suite 12c: Essential Concepts Ed 1 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.

Audience
Application Developers
Business Analysts
Project Manager
SOA Architect

Related Training

Required Prerequisites

Understanding of web service concepts such as WSDL, SOAP

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?