



Oracle SOA Suite 12C: Essential Concepts ED 1

Course ID #: 0380-390-12-W

Hours: 21

Course Content

Course Description:

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.

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.

At Course Completion:

After completing this course, student will be able to:

- 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 Student:

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



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Prerequisites:

Understanding of web service concepts such as WSDL, SOAP

Topics:

Module 01: Service-Oriented Architecture Concepts

- What is SOA?
- About SOA building blocks
- How to adopt SOA?
- Discussing SOA standards

Module 02: 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

Module 03: 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

Module 04: 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

Module 05: Connecting with Binding Components

- Explaining Binding components
- Describing JCA adapters
- Describing REST adapter

Module 06: 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

Module 07: 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

Module 08: 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



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Module 09: 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

Module 10: Managing, Monitoring and Troubleshooting Composite Application

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

Module 11: 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?

Module 12: Enabling Mobile and Cloud Integration

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