



Oracle SOA Suite 10g (Fusion) Essentials Course Content:35-40hours

Course Outline

Introducing the Course and SOA Concepts

- Service-Oriented Architecture
- Services
- Defining Web Services
- Describing Composite Applications
- Identifying Standards that enable SOA
- Examining the Life Cycle SOA Applications
- Describing the Course Environment
- Describing the Course Practice Scenario

Introducing Oracle SOA Suite 10g

- Describing Oracle ESB Architecture
- Describing Oracle BPEL Process Manager Architecture
- Describing Oracle Business Rules and Decision Services
- Describing Oracle Web Services Manager
- Describing Oracle Service Registry
- Describing Oracle Service Registry
- Describing Oracle Application Server
- Monitoring Business Activity with Oracle BAM

Creating Web Services with Oracle SOA Suite 10g

- Introducing the Web Services Architecture
- Describing Web Service Standards
- What is SOAP?
- What is WSDL?
- What is UDDI?
- Implementing Web Services in Oracle Application Server

Developing Web Services using Oracle JDeveloper



Designing a Web Service using a top-down and bottom-up approach

Configuring an Enterprise Service Bus

- Introducing ESB Architecture and Components
- ESB Adapter Framework
- Exploring Adapters Available in Oracle ESB
- Managing Transactions with ESB Adapters
- Working with the ESB Designer
- Transforming Messages in Oracle ESB
- Accessing the ESB Control

Orchestrating Services with BPEL

- Describing Process Orchestration Concepts
- Introducing Business Process Execution Language (BPEL)
- Developing a BPEL Process in JDeveloper
- Creating a Synchronous BPEL Process Project
- Invoking a Synchronous Service with BPEL
- Exploring Process Orchestration with BPEL Activities
- Implementing Human Workflow Services
- Deploying and testing a BPEL Process

Implementing Decision Services with Rules

- Introducing Decision Service Concepts
- Describing Oracle Rules Architecture and Components
- Accessing Oracle Rule Author
- Creating a Rule Repository
- Creating Business Rules with the Rule Author
- Creating a Rule Set and a Rule
- Implementing Rules with a BPEL Process
- Rules SDK

Integrating Services Through Adapters

- Defining Adapter Services
- Describing the Adapter Framework
- Types of Adapters
- Creating a PartnerLink for an Adapter in BPEL
- Invoking the service of a BPEL adapter
- Virtualising Services through ESB Adapters
- Deciding to use BPEL or ESB Adapters
- Designing Routing Patterns

Transforming Message Data in ESB and BPEL

- Creating Transformation activity in a BPEL Process

- Creating Transformation Mapping by using the XSLT Mapper
- Saving a XSLT Transformation

Applying a Transformation to XML data

- Creating a Domain Value Map in BPEL and in ESB
- Applying a Transformation in ESB
- Applying Domain Value Map to a Transformation in ESB
- Contrasting Transformation in ESB and BPEL

Securing Services with Oracle Web Services Manager

- WS-Security
- Identifying Oracle Web Service Manager Components and Architecture
- Registering a Gateway and an Agent
- Managing Security Policies
- Creating Policy for a Gateway
- Creating Policy for an Agent
- Applying a Security Policy
- Testing and Monitoring the Policy Usage