

Oracle SOA Curriculum

Introduction and Concepts of SOA:

- Definition of SOA
- Standards and Specifications that make SOA
- Describe SOA Reference Architecture
- Understanding SOA Suite12cProduct
- Understanding Service Design Considerations and different Service Components

Understanding SOA 12c:

- ListSOA12cComponents
- Describe Service Components
- Define Composite Application
- Describing Enterprise Manager
- Concepts of Oracle Web logic Server
- Introduction to Oracle Jdeveloper12c

Providing Services for SOA:

- Defining a Service
- Describing key Service Artifacts
- Reviewing Web Service Concepts and Architecture
- Reviewing Concepts of XML schema, XSLT and WSDL Documents
- Introduction to Adapter Framework

Introduction and Concepts of SCA (Service Component Architecture):

- Explain SCA and its components
- Defining Composite Application
- Creating SOA Composite in Jdev

Managing and Monitoring SOA Composite Application:

- Basics of Administrating and Monitoring the SOA Composite
- Working with Enterprise Manager
- Deploying, Undeploying and Testing SOA composite
- Debugging SOA Composite



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Introduction to Concepts BPEL:

- Understanding Orchestration
- Getting Started with Oracle BPEL Process Manager
- Overview of Oracle BPEL Process Manager Components
- Overview of BPEL Designer Environments
- Overview of Activities.
- Concepts of Partner Links and Service Invocations

BPEL Concepts In-depth (With Real-time Project):

- Invoking Web Services using BPEL
- Interaction pattern sin BPEL (Synchronous/Asynchronous)
- Concepts of Variables and uses in BPEL
- Implementing Parallel flows in BPEL
- Conditional Branching in BPEL
- Suspending threads in BPEL
- Manipulating and Transforming XML Data in BPEL using XSLT
- Explaining Data Manipulation and XPath/XQuery Standards
- Explaining Adapter concepts and Framework
- Explaining different types of Adapter
- Implementing Adapters using BPEL
- Debugging BPEL Processes
- Concepts of Fault Handling in BPEL

Sharing Functionality:

- Using the Design-time Meta Data Services (MDS) Repository to share files
- Introducing Templates
- Creating and Using Project, Service Component, and Scope Activity Templates
- Introducing BPEL Sub processes
- Creating and Using Stand alone Sub processes
- Creating and Using In line Sub processes
- Describing the differences between templates and Sub processes



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Designing and Managing Business Events:

- Describing the Event Delivery Network
- Creating a Business Event
- Publishing an Event
- Subscribing to an Event
- Managing Events in Oracle Enterprise Manager

Using the REST Adapter:

- Introducing REST Services
- Comparing REST and SOAP Web Services
- Comparing REST and SOAP Web Services
- Creating and Configuring a REST Adapter



Mediators:

- Introduction to mediators
- Working with mediators.
- Event driven network sviamediator
- Schematron files, parallel flows, sequential flows
- Faults and logging in the Mediator
- Transaction handling in the Mediators

Human Tasks:

- Concepts of Human Task
- Implementing Human Task Components in SOA

Business Rules:

- Concepts of Business Rules Component
- Implementing Business Rules Components

BAM (Business Activity Monitoring):

- Concepts of BAM
- Implementing BAM

Securing Services and Composite Applications:

- Explaining Security for Services
- Describing the Fusion Middle ware Security Architecture
- Attaching Security Policies at Design Time in JDeveloper
- Attaching Security Policies Post-Deployment in Enterprise Manager

Oracle Service Bus (OSB):

- Concepts of Oracle Service Bus
- Virtualizing Services using OSB
- Concepts of Business and Proxy Services in OSB
- Designing and Implementing Business and Proxy services using OSB
- Handover of links ,hands-on materials and general discussion

KEY FEATURES



Instructor-led Sessions



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