

# Oracle Service Bus 11g Training Course

## **Introduction**

SOA Introduction  
Why Service Bus needed  
Features of Service Bus  
Difference between SOA & Service Bus  
Difference between Service Bus & Mediator  
General Service Bus concepts

## **OSB Installation**

OSB Architecture (Admin Level) Introduction  
OSB Versions  
Oracle DB & RCU Installation  
Weblogic Server Installation  
OEPE (Eclipse) Installation  
OSB Installation  
Create & Extend Domain

## **OSB Architecture**

Architecture Introduction  
Functional Features  
Service Bus components details  
Understand OSB & Weblogic Console, Eclipse IDE  
Advantages for the Development Approach (Whether to use thin client based development or IDE based development)  
Overview of the OSB SB Console

## **Proxy and Business Services**

Proxy Service  
Business Service  
Message Flow  
Introduction to XQuery Mapper and Transformations in OSB  
*Practice*  
Creating your first OSB Process – HelloWorld Using both Console & Eclipse  
Deploying the HelloWorld Process from Eclipse  
Managing Deployments/Un-Deployments

## **Messaging & Routing**

Explain concepts on Message context model  
Explain concepts on message flow elements  
Message and Design Patterns with OSB 11g  
Explain concepts on Routing  
*Practice*  
Branching  
Dynamic Routing

## **OSB and SOA Integration**

Use cases and concepts covering SOA/BPEL and OSB integration Practice

OSB calling BPEL Services

BPEL calling OSB Proxy Services

SOA-Direct Protocol

*Practice*

Invoke Synchronous SOA Service from OSB Using SOA-Direct

Invoke Asynchronous SOA Service from OSB Using SOA-Direct

Invoke Asynchronous SOA Service from OSB Using HTTP

Invoke Synchronous OSB service from SOA

### **Callouts & Protocols**

Service & Java Callout concepts

Different advanced protocols available in Proxy & Business service

*Practice*

Service Callout

Create Proxy Services with different service types and protocols

Understand logic and business case

Create Business Services with different service types and protocols

Message Handling and Transport protocols

### **Adapter (Protocols)**

Different adapter protocols

JMS protocol

file/ftp protocol

JCA protocol

AQ/MQ protocol

local protocol

*Practice*

JMS adapter(Protocol) Poll & write sample

File read & write sample

DB poll & write sample

### **REST Support**

REST Introduction

Expose OSB service as REST service

*Practice*

REST GET method sample

REST POST method sample

### **Transformation**

Xquery

XSLT

*Practice*

Xquery Sample using Eclipse

Use XSLT file in OSB generated from Jdeveloper

### **Error Handling & Reporting**

Error handling Introduction

Different error handlers

Reply & Resume Activity

Log & Report Activity

Alerts

### *Practice*

- Reply Activity
- Resume Activity
- Report Activity
- Handle Business fault
- Handle Technical Fault
- Generate Alert

### **Advanced Features**

- SLA Alerts
- Service pooling
- Throttling
- REST Support
- Service Result caching
- Split-Joins
- Java Callout