

# Oracle SOA Suite 12c Training Course

## **Introduction**

Overview of service-oriented architecture (SOA)  
Oracle SOA 12c Features  
XML, XSD, WSDL and SOAP Introduction

## **Installation**

Overview of the fusion architecture  
Overview of the Weblogic server & domain  
Overview of the SOA server and Meta data schemas.

### *Part-1*

Installation of SOA 12c  
Creation of domains  
Integrated domain  
Standalone domain  
Installation steps for SOA extension

### *Part-2*

Installation steps Oracle Database (XE)  
Installation /Creating steps required schemas (RCU) 12c  
Installation steps SOA 12c  
Creating the SOA domain  
Installation steps SOA extension  
Preparing the start and stop scripts for SOA server

### *Practice*

Installation document for each installation

## **SCA Architecture**

SCA Introduction & SCA components  
Service Components & Binding Components  
Description of Composite xml.  
Describe SOA Composite Editor

## **BPEL Introduction & BPEL 2.0 Activities**

BPEL overview  
BPEL Templates  
BPEL 2.0 features  
BPEL 2.0 activities

### *Practice*

Create Hello World BPEL process.  
Deploy application to SOA server

## **Deployment, Debugging & Testing**

Different deployment methods  
SOA Debugger Introduction  
HTTP Analyzer Introduction

## *Practice*

Deploy Composite from EM console & Jdeveloper  
Debugger Composite using SOA Debugger  
Test composite from HTTP Analyzer & EM console

## **Templates & Sub Process**

Template Introduction  
Project Template  
Component Template  
Custom Activity Template  
Sub processes Introduction  
Inline Sub processes  
Standalone Sub processes

## *Practice*

Create, Import and Use Project Templates  
Create, Import and Use Component Templates  
Create, Import and Use Custom Activity Templates  
Create, Import and Use Inline Sub processes  
Create, Import and Use Standalone Sub processes

## **Mediator**

Mediator introduction  
Routing Rules in Mediator and Types

## *Practice*

Create composite with Mediator component  
Invoke Reference from Mediator

## **REST Service**

REST introduction  
WADL file introduction

## *Practice*

Create RESTful services with GET & POST method with XML  
Create RESTful services with POST method with JSON  
Invoke RESTful services

## **MDS**

MDS introduction  
New features introduced in MDS  
SOA Design time repository

## *Practice*

Create, Delete MDS folders & Deploy Files to MDS  
Export, Import of MDS files  
Refer MDS files in Composite

## **Adapters and Accessing Adapter from BPEL**

Adapter Framework  
File/FTP Adapter  
Advanced Queuing  
Database Adapters  
JMS adapters  
Coherence Adapter Configuration  
Default and Custom Cache for Coherence Adapter

Coherence Adapter Usage

*Practice*

File, JMS, DB Adapter

Coherence Adapter

### **Fault Handling and Exception Management**

Fault types

Fault handling Framework new features

Design fault policies files

Catch and CatchAll blocks

*Practice*

Generate Business Fault and Handle it using Catch blocks

Handle technical (Run Time) Faults using Catch & catch All block

Handle faults using Fault Handling Framework

### **Enterprise Service Scheduler**

ESS Introduction

ESS Components

*Practice*

Schedule SOA Composite

### **Managed File Transfer**

MFT Introduction

MFT installation

MFT console overview

MFT components and features

*Practice*

File Transfer using MFT

### **Industrial SOA**

Composites Lazy loading

SOA Composer

New FMW dashboard

Error Hospital and recovery