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Oracle SOA Course Content

Course Duration : 30 Hrs

MODULE: 1

Overview of Oracle SOA

- SOA to a Layman
- Overview of Oracle SOA
- Real Time Examples
- Advantages in using Oracle SOA
- Why Oracle SOA is Important
- Integration Layer Introduction
- Different Types of integration Tools

MODULE : 2

Web Services Introduction

- Overview of XML, XSD, Web-Services, SOAP, UDDI, WSDL
- Web Services Sample Demonstration.
- Understanding WSDL

MODULE: 3

Business Process Execution Language (BPEL)

- Introduction to Oracle BPEL
- Overview of the Oracle BPEL Component designer in Oracle SOA Suite
- Interaction Patterns in Oracle BPEL
- Developing & Deploying a simple Oracle BPEL Process
- Administer and Monitor Oracle BPEL processes in EM

MODULE: 4

Activities in Oracle BPEL Component Designer

- Scopes & Variables in Oracle BPEL
- Invocation Constructs in BPEL
- Working with Parallel Flows
- Conditional Branching
- Exception Handling
- Oracle Extension Activities

MODULE : 5

Orchestrating Services with Oracle BPEL

- Invoking external services in Oracle BPEL
- Overview of Partner Link

- Orchestrate services through BPEL for a Synchronous Service
- Orchestrate services through BPEL for an Asynchronous Service
- Base on WSDL

MODULE : 6

Fault Handling and Exception Management

- Events and Timeouts
- Fault and Exception Handling
- BPEL's exception Handling, various activities in it
- Fault Management Framework

MODULE : 7

MDS Introduction

- MDS Advantages
- Types of MDS deployment
- Configuration in Composites

MODULE: 8

Event Delivery Network

- Introduction to Event Delivery Network
- Consuming Events from EDN.
- Defining Events and using them.

MODULE: 9

Sensors

- Introduction to Sensors
- Use of Sensors
- Different types of sensors

MODULE : 10

Working with Mediator Components

- Introduction to the Mediator Component
- Creating a Mediator Component
- Adding Routing Rules
- Create Content Based Routing filters
- Create XSL Transformations with XSLT Mapper
- Fault Handling in Mediator

MODULE : 11

Creating Adapter Services

- Architecture of Technology Adapters
- Pre-built technology Adapters in SOA Suite 11g
- Configuring Data sources, Connection Pools, JNDI
- Working with a Database Adapter
- Working with a JMS Adapter
- Working with a File Adapter

MODULE : 12

Human Workflow and Work list Application

- Introduction
- Features of workflow service
- Users and Groups
- Hands on Sample

MODULE : 13

Business Rule and Decision Tables

- Introduction to Business Rules.
- Introduction to Decision tables
- Using Business Rules and Decision tables in BPEL

MODULE : 14

Usage of Spring Context

- Introduction
- Hands on Sample

MODULE: 15

Securing Services and Composite Applications

- Introduction to Web Service Security
- Oracle Web Services Manager Policy Framework
- Introduction to Security Policies
- Attaching Security Policies at Design-Time in JDeveloper
- Attaching Security Policies Post-Deployment in Enterprise Manager
- Discussing Security Propagation between Applications and an SOA Composite

MODULE : 16

- Differences Between SOA and OSB
- SOA – OSB Communication Sample illustration