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

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

www.b1onlinetrainings.com
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