



# **Oracle SOA 11g Course**

Silicon CareerJet **Technologies** 



Content

Silicon CareerJet Technologies has always been a pioneer in terms of providing best quality online/classroom trainings. We do have Product-Certified experts from the Industry, definitely wanting to assist you in your quest for a better career. Here are the course contents of Oracle SOA 11g

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# Duration: 30 Days

## What will be your learning at the end of this course?

Oracle Fusion Middleware 11g is the best-in-breed application infrastructures that is available in the Industry today. It helps enterprises to build and run agile, intelligent business applications and help them in maximizing their IT efficiency.

As a part of this course, you will learn the concept of Service Oriented Architecture and see how Oracle SOA Suite 11g, paves a way for building better integration solutions that cater around the SOA design principles.

You will also learn how to configure Service Components like BPEL, Mediator, Business Rules, BAM etc.,

### Audience:

♣ Application Developers, Developers, SOA Architects

#### Prerequisites for this course:

- Good knowledge on XML technologies like XML, XSD, XPATH, XSLT
- 4 A basic understanding on the concept of Enterprise Service Bus

#### Course Objectives:

- Understand the concept of Service Oriented Architectures
- ↓ Significance of SOA in the space of Enterprise Application Integration
- Enterprise Service Bus
- Understand XML, XPath, XSLT, XSD, WSDL, Web Services
- Linstalling Oracle SOA Suite 11g
- Configuring a Weblogic Domain
- ↓ Work with BPEL Process Manager Activities
- Hands-on Event Delivery Network
- Work with Business Activity Monitoring
- Work with Oracle Business Rules
- Creating and configuring JCA Adapters
- Domain Value Mappings
- Monitoring the Services via Enterprise Manager Console



TOPIC	CONTENT TO BE COVERED		
INTEGRATION	An introduction to Enterprise Application Integration		
	Why is there a need for integrating		
	applications?		
	What are the Traditional Integration Styles?		
	Integrations - Classification		
	Process-Based Integrations Vs. Bulk Data-		
	Based Integrations		
Understanding Enterprise Application I Industry	Understanding Enterprise Application Integration with detailed Use Cases from the Industry		
	An introduction to Service Oriented		
	Architecture		
	Significance of Service Oriented Architecture in the Industry		
	What are Services?		
	Why is the Orientation towards Services?		
SERVICE ORIENTED ARCHITECTURE	What are the Principles that drive the Service Oriented Architectures?		
	What is Service Portfolio Matrix?		
	What is Service Granularity?		
	Business Wins with Service Oriented Architectures		
	The reusability aspects of a Service Oriented		
	Integration Solutions		
<ul> <li>Understanding the Service Oriented Architecture and its design principles with detailed Use Cases from the Industry</li> </ul>			
	An introduction to Enterprise Service Bus		
	Significance of Enterprise Service Bus		
ENTERPRISE SERVICE BUS (ESB)	What is Service Virtualization and how can it be accomplished using an ESB?		
	How will an ESB help enterprises to build loosely-coupled IT infrastructures?		
	Routing and Transformation in an Enterprise Service Bus		
	Tight Coupling Vs. Loose Coupling		
	Location Transparency in an ESB		



	Understanding the concept of ESB and its offerings with detailed Use Cases from the Industry		
	An introduction to XML		
	Significance of XML in Application Integration		
	An introduction to XSD		
	Defining XSDs		
	An introduction to XPATH		
	Defining XPATH Expressions		
XML TECHNOLOGIES	An introduction to XSLT		
	A look into various constructs in XSLT		
	An introduction to WSDL		
	A look into various elements of a WSDL		
	An introduction to SOAP		
	A look into various elements of SOAP		
	Re-visiting the XML technologies		
An introduction to Oracle Fusion Middleware			
	11g		
	An introduction to Oracle SOA Suite 11g, 10g		
	vs. 11g Differences		
SOA 11G PRODUCT STACK	Understanding the Oracle SOA Product Stack		
	A look into Oracle SOA product installation		
	pre-requisites		
	Downloading the Oracle SOA Software		
ORACLE SOA SUITE 11g PRODUCT INSTALLATION			
✤ Installing the Oracle XE 10g Database			
Creating SOA Repositories on Database	using RCU		
Installing the Oracle Weblogic Server			
Installing the Oracle SOA Suite 11g Product			
Creating and configuring a Weblogic Domain with Oracle SOA Product			
Starting and Stopping the Oracle Weblogic Admin and SOA Managed Servers			
🞍 Installing Oracle JDeveloper 11g			
Plugging the SOA Design Time into Oracle JDeveloper 11g			
	A look into Service Component Architecture – SCA		
SERVICE COMPONENT ARCHITECTURE	What is SCDL?		
- SCA	Significance of Service Component Architecture		
	Layers in a SCA infrastructure		

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	What is an Exposed Service Layer?
	What is a Component Layer?
	What is an External Reference Layer?
	What is an External Reference Eager:
↓ Understanding SCA with detailed Use C	Cases from the Industry
	An introduction to DDEL ANAC
	An introduction to BPEL4WS
	Why is BPEL used for? What are Business Processes?
BPEL4WS	What is meant by Business Process Orchestration?
DI ELEVVS	BPEL – is it for Process Integrations or Bulk –
	Data Integrations?
	Differences between BPEL 1.1 & 2.0 specs
	Design Discussions on BPEL
Understanding the concept of BPEL with	detailed Use Cases from the Industry
	ractified obe cases from the industry
	What are Message Exchange Patterns?
	Synchronous Request – Response MEP
	Asynchronous Request – Delayed – Response
MESSAGE EXCHANGE PATTERNS (MEPs)	MEP
	One Way or Fire – And – Forget MEP
	Design discussions on when to use the MEPs
🚽 Understanding the MEPs with detailed U	Jse Cases from the Industry
	An introduction to Oracle BPEL Process
	Manager
	What are Activities?
ORACLE BPEL PROCESS MANAGER	Introduction to BPEL Activities
	How different is Oracle BPEL Process
	Manager from BPEL4WS?
	Re-visiting the concept of SCA & Composite
	What is an Assign Activity?
Oracle BPEL – ASSIGN & TRANSFORM ACTIVITIES	Significance of Assign Activity in
	manipulating XML nodes
	What is a Transforming Activity?
	Significance of Transform Activity in
	manipulating XML nodes
	Understanding the parts of a Transform
	Activity



- Building the first Composite with a Synchronous BPEL Process Service Component, containing an Assign Activity
- Building a Composite with a Synchronous BPEL Process Service Component, containing a Transform Activity
- Building a Composite with a Synchronous BPEL Process Service Component, containing a Transform Activity, demonstrating For-Each Construct
- Building a composite with a Synchronous BPEL Process Service Component, containing a Transform Activity, demonstrating Choose-When-Otherwise Construct
- Building a composite with a Synchronous BPEL Process Service Component, containing a Transform Activity, demonstrating IF Construct

	What is meant by Conditional Execution?	
	What is Switch Activity and how does it help,	
	perform Conditional Execution?	
	What are Iterations?	
	What is while Activity and how does it help,	
	perform Iterations?	
ODACIE DDEL CUNTOU DECENTE	What is Receive Activity in BPEL?	
ORACLE BPEL – SWITCH, RECEIVE, REPLY & WHILE ACTIVITIES	What is the Significance of Receive Activity in BPEL?	
	What is Reply Activity in BPEL?	
	What is the Significance of Reply Activity in BPEL	
	What is Invoke Activity and How can it be	
	used to Invoke Web Service from the	
	Composite?	
Building a Composite with a Synchronous BPEL Process Service Component, containing a Receive, Reply & While Activity		
<ul> <li>Building a Composite with a Synchronous BPEL Process Service Component, containing a Receive, Reply &amp; Switch Activity</li> </ul>		
	What is Scope Activity and how does it help	
ORACLE BPEL - ADVANCED CONCEPTS INVOKE, SCOPE, SEQUENCE Activities	logically group Business Logic in BPEL?	
	What is Sequence Activity and how does it	
	help logically group Business Logic in BPEL?	
	What is Invoke Activity and How can it be	
	used to Invoke external Web Services from the	

Building a Composite with a Synchronous BPEL Process Service Component to invoke

Composite?

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both of the above created Composites using an Invoke Activity(Synchronous Invoking Synchronous) – Synchronous Message Exchange Pattern Demo – The Process Orchestration would be logically grouped using Scope & Sequence Activities

ORACLE BPEL - ADVANCED CONCEPTS WAIT ACTIVITY       What is Wait Activity?         What is Wait Activity?       Why is there a need to interrupt the Business Process Executions?         How can a Business Process be configured for halting the process Halts configured in BPEL? Parts of a Wait Activity         Image: Building a Composite with a Asynchronous - with - Delayed - Response BPEL Process Service Component, containing a Receive, Wait & Invoke Activity         Image: Building a Composite with a Asynchronous - with - Delayed - Response BPEL Process Service Component, to invoke the above created Asynchronous Composite ( Asynchronous Invoking Asynchronous Demo)         Image: Understanding the differences between the Synchronous BPEL Process & Asynchronous BPEL Process WSDI. files         Image: Understanding the differences between the Synchronous BPEL Process & Asynchronous BPEL Process USDI. files         Image: Understanding the differences between the Synchronous BPEL Process & Asynchronous BPEL Process. by Belfiles         Image: Understanding the differences between the Synchronous & Asynchronous BPEL Process Templates         Image: Understanding the differences between the Synchronous & Asynchronous BPEL Process Templates         Image: BPEL Process Dept Ifiles         Image: BPEL Process Super Concepts         Image: BPEL Process Dept Ifiles         Image: BPEL Process Dept Ifiles         Image: BPEL Process Dept Image: BPEL Process Super Concepts         Image: BPEL Process Dept Image: BPEL Process Suprocess Orchestrations?         A buildin			
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- 🖌 Setting up a Data Source
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- **4** Creating Weblogic JMS Adapter JNDIs
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Strictly confidential – For internal



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- 4 Configuring a BAM Adapter to populate the Data Objects
- 🞍 Building a BPEL Composite to invoke the BAM Adapter
- ✤ Monitoring Reports through Oracle BAM Console

	What are Faults?
	What are Runtime & Business Faults?
	Handling Faults in BPEL using Catch and
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MANAGEMENI	Handling Faults with Fault Management
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	What are Fault Policies & Fault Bindings
	What are Actions, Conditions & Policy IDs

- Building a Synchronous BPEL Composite to demonstrate fault handling using catch & catch all blocks
- ↓ Building Fault Policy & Fault Bindings Files
- Building a Synchronous BPEL Composite that invokes the above Composite, to demonstrate fault handling using the Fault Management Framework

#### MISC

- ₩ Working with DVMs Domain Value Maps
- Deploying and Un-deploying SOA Composites
- Monitoring SOA Composites
- Dynamic Partner-Links
- ✤ Partner-Links
- 4 Monitoring SOA composites via Enterprise Manager EM Console
- **4** Setting up the Audit Levels
- **Working with Transformation Functions**
- ↓ Working with in-built XPath Functions
- **4** Real Time Project Explanation

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