

## Oracle BPM 11g: Implement the Process Model

**Duration:** 5 Days

### What you will learn

This Oracle BPM 11g: Implement the Process Model training is ideal for process developers who want to learn how to implement a BPM process model. It also teaches you how to collaborate and support the needs of process analysts in their role as modelers and co-implementers of the process.

### Learn To:

Define the underlying implementation for processing user tasks, business rule tasks and service tasks.

Manage the flow of information through a business process by mapping data objects into and out of gateways and business rules.

Integrate data objects into the design of human task forms.

Create more complex process models to meet your business needs.

Use different types of events, including message, signal and timer events.

Manage synchronous and asynchronous communication between processes and sub-processes, peer processes and other services.

Understand exception handling and UI customization.

### Integration with SOA Suite

Since OBPM is closely integrated with SOA Suite, this course will also help you develop a clear understanding of how OBPM integrates with SOA in both the run-time and the development environment. Expert Oracle University instructors will help you develop this knowledge through a combination of instruction and hands-on exercises.

### Recommended Prerequisite Knowledge

It addresses a more technical audience than the OBPM 11g Modeling course. It assumes that you already understand the basics of process modeling and know how to use the modeling tools of BPM Studio.

### Audience

Application Developers

Developer

Process Developer

### Related Training

#### *Required Prerequisites*

Experience creating process models using the Oracle BPM modeling tools (Business Process Composer and BPM

Studio)

Experience with JDeveloper or other Java IDEs

Familiarity with web application and web service architectures, object oriented language concepts and some experience programming with JavaScript

Oracle By Example (OBE): Building Your First Process with Oracle BPM 11g

*Suggested Prerequisites*

Familiarity and some experience with SOA Suite

Oracle BPM 11g Essentials

Oracle SOA Suite 11g: Essential Concepts

Some familiarity with JavaScript

Some understanding of the SOA architecture

XML Fundamentals Ed 1.1 NEW

**Course Objectives**

Customize the BPM Workspace by hiding panels and tabs, inserting external links, using Flex Field based columns, and using custom skins

The Process Composer interface to create web forms to implement a human task process Composer Users

Use the Process Composer interface to create web forms to implement a human task

Create complex business rules using decision tables

Define approval flows using the SOA human workflow editor

Define data associations using data objects and expressions

Create expressions to define conditional branching

Describe some best practices for team development of the ADF user interface

Implement service tasks

Send a message to a BPEL process from a BPMN process

Explain how the integrated WebLogic server can be used to host web forms

Use a Notification activity to send an email from a process

Send and receive messages of various types to/from another process, subprocess, or peer process

Handle exceptions thrown within the process and from external sources

Describe and explain the various options available for creating a completely custom user interface for the BPM process

## Course Topics

### **Overview of Oracle BPM Process Implementation**

Review of Oracle BPM Architecture

Review of BPM Modeling

Overview of the Development Environment:

About Process Accelerators

Introducing the SalesQuote Model

### **A Collaboration: Developer and Process Analyst**

Collaborative Process Design: An Overview

Introducing Process Composer

Creating project templates for the Business Process Composer user

Discussing the Developer's role in supporting the process analyst

### **Using Business Objects**

Working with information in a process

Explaining Data Objects and their scope

About Data object types and their representation

Describing Data mapping and association

Creating a Business Object

Declaring Process and Project Data Objects

Defining business indicators

### **Implementing User Tasks**

Overview of human tasks

Creating a human task

About Human task patterns

Explaining Parameters and data association

About Task forms

### **Writing Expressions and Initializing Variables**

Introducing expressions

About Simple expressions

About XPath expressions

About XSL transformations

Discussing a more advanced XPath example

Using expressions in conditional transitions

### **Building Web Forms in Business Process Composer**

Overview of Web Forms

Introducing the Web Form Designer

About the Development Approach

Adding Components to a Web Form

Customizing Components of a Web Form

Adding Form Rules to a Web Form

## **Implementing Business Rule Tasks**

- Overview of Business Rule
- Discussing Rulesets and Bucketsets
- About Globals
- Creating business rules
- Testing business rules

## **Defining Human Workflows**

- Overview of Human workflow
- About Patterns
- Defining human workflows
- About Task options
- Defining and using parametric roles
- The ApproveDeal human workflow: An example

## **Implementing Service Tasks**

- Overview of Services and References
- Overview of Service Adapters
- Overview of Mediators and BPEL Services
- Creating a Service Task

## **Overview of Events**

- Overview of events
- More on Timer events
- More on Signal events
- Discussing the exclusive XOR Event Gateway

## **Controlling and Organizing the Process Flow**

- Overview of Subprocesses
- About the embedded subprocess
- About the reusable subprocess
- About the event subprocess
- Interrupting or altering the process flow
- About Peer process communication
- About Interprocess communication
- Setting up an interprocess communication using Message events

## **Handling Exceptions in the BPM Process**

- Overview of Exception handling
- About System events and Business events
- Handling errors for an activity and a subprocess
- Handling errors at the process level
- Discussing Error events
- Error handling in a reusable subprocess
- Error handling in a called peer process
- Explaining Policy driven exception handling

## **Developing the User Interface using ADF - An Introduction**

- Overview of ADF
- Explaining some fundamentals of JSF
- About Task Forms and task flows
- Working with the ADF page editor

Explaining UI Development and Deployment  
Using the Integrated WebLogic Server for UI development  
Working in parallel with a UI development team  
Managing code lines

### **User Interface Options**

Making the Process UI your own - what are your options?  
Customizing the ADF Workspace  
Discussing Custom UIs and the APIs  
Creating an ADF Custom UI  
Creating a Non-ADF Custom UI (this is just a high level overview)  
About The Process Spaces Alternative Workspace