

WebSphere Business Modeler for Business Process Management (BPM)

Duration: 5 days

Course Description

This course gives and in depth understanding of Business Modeling along with a broad understanding of Service Oriented Analysis and Design (SOAD) for SOA. The software tool using for modeling in this class is IBM's WBM (WebSphere Business Modeler).

You Can Learn to:

- Why would you need a Business Process Modeling Framework
- Utilization and understand the usage of IBM's WebSphere Business Modeler to create Business Models.
- Understand the basics of Service Oriented Analysis and Design (SOAD)
- Understand the relationship between SOAD and Business Process Models
- How to Model a business processes
- Analyze and Design a Business Models
- Have a comprehensive understanding of several tools of business process modeling such as querying and reporting along with other (BPM) tools
- Enhance and add Key Performance Indicators to a Business Model

Prerequisites:

Basic understanding of WebSphere Application Server v5 administration.

Course Labs

Lab1	Using WebSphere Business Modeler
Lab2	Basic Business Process Modeling
Lab3	Capturing Process Requirement
Lab4	Model Business Items
Lab5	Creating Business Item Instances
Lab6	Practice Process Modeling
Lab7	Initial Process Modeling
Lab8	Refine the Place Order Online Process
Lab9	Create Resources Items
Lab10	Working with Organization
Lab11	Define Organization Structure
Lab12	Using Roles and Organizations
Lab13	Specify Cost and Duration for Tasks
Lab14	Working with Classifiers
Lab15	Working with Sub-Processes
Lab16	Simulate the Place Order on Line Process
Lab17	Advanced Simulation
Lab18	Optimizing the Place Order on Line Process
Lab19	Understanding Resource Usage
Lab20	Reporting

Course Content

1. Introduction to the WebSphere Portal Server

- What is a Portal , Benefits of Portal Sites, General Portal Architecture
- The Major Components of Horizontal Portals, WebSphere Portal Goals, WebSphere Portal Components
- WebSphere Portal Accessibility and Packaging, A Typical Network Architecture for WebSphere Portal
- WebSphere Portal Server Architecture, Portal Container , Portal Engine, Page Aggregation Modules
- Portlet, WebSphere Portal Built-in Portlets, WebSphere Portlet Content Publishing (WPCP)
- Portal Document Manager (PDM), Search Engine

2. IBM Tools for BPM

- WebSphere Business Modeler v6
- Key Features, WebSphere Process Server v6
- WebSphere Integration Developer (WID) v6

- SCA Basics, Wiring Example

3. Using WebSphere Business Modeler

- Installation Techniques, Launching WBM
- The Business Modeling Perspective
- Business Modeling Project
- Creating a Business Group
- Grouping Elements in a Business Group
- Exporting Projects , Importing Projects
- Creating a Business Process, Designing Data Structure

4. Service Oriented Analysis and Design

- Introduction to SOAD
- Hierarchy in SOAD, Why OOAD is not Enough
- The SOAD Methodology, Use Cases, Classifying Use Cases
- Diagramming Use Cases
- Modeling the Business Processes
- Stages of SOAD, Super Business Processes

5. Business Process Modeling Methodology

- Stages of SOAD, Best Practices

6. Case Study

- Objectives, The Case Study, The Use Cases

7. BPEL & FDL

- Business Process Diagram
- Challenges in Process Implementation
- BPEL4WS, Business Process, BPEL Document, FDL

8. Model Element Basic

- Business Item, Internal Representation of Business Items
- Data Catalog, Notification, Creating a Notification

9. Process Modeling Basics

- Process, Task, Service, Repository
- Creating Local and Global Process
- Creating Services
- The Start and Stop Nodes
- Connections, Working With Data
- Process Data Input and Output
- Working With Repository
- Decision Elements, Fork, Merge, Join
- Merge and Join Input Data
- Loop Elements, For Loop

10. Advanced Model Elements

- Resource Definition and Predefined Templates
- Create a Resource Definition Template, a Resource, Roles, Timetable
- Cost, Enter Cost, Special Time Based Cost
- Expressions, Term Types, Operators
- Creating Modeling Artifact Term
- Rules, Organization and Location, Category

11. Advanced Process Modeling

- Element Input Details, Input Criteria, Input Constraints
- Correlation, Modeling Correlation, Precondition
- Output Details, Output Criteria, Post Condition
- Specify Required Roles for a Task
- Color Code by Role or Resource
- Specify Duration, Specify Cost and Revenue
- Color Coding Based on Organization or Location
- Classifier ,Predefined Classifiers
- Map Element, Adding a Map, Observer Element
- Timer, Specify Timeout, Swim lanes Layout

12. Process Simulation

- Key Components, Tokens
- Basic Simulation Methodology
- Creating a Simulation Snapshot and Profile, Things to Remember, Profile Attributes
- Specify Input Data to the Process
- The Problem With Business Item Instance Output
- Configuring Profile Attribute Defaults and Statistics Display

13. Analyzing Process Modeling and Simulation

- Static Analysis of a Process Model
- Throughput Analysis, Path Cycles Analysis, Paths Unable to be Followed Analysis
- Static Analysis of the Model Elements
- Matrix Analysis, Dynamic Analysis, Activity Cost, Activity Statistics, Activity Resource Allocation
- Resource Usage, Process Case Analysis, Process Instance Summary, Comparative Analysis

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14. Querying, Reporting and Printing

- Querying, Using Predefined Queries
- Running Queries, Carrying out Analysis
- Reporting, Data Sources, Formatting Reports, Report Templates, Documentation Reports
- Dynamic Analysis Reports, Static Analysis Reports

15. Exporting Models

- The Need for Exporting Models ,Export Formats
- Exporting to WebSphere Business Modeler Project Format

16. Publishing Reports

- The need for Publishing
- WebSphere Business Modeler Publishing Server - Architecture
- WebSphere Family, Draft Portal, Released Portal
- Publishing from WBM – Model Publishing

17. Versioning Projects

- The Need for Versioning
- Software Configuration Management (SCM) Tools
- Versioning WBM Projects
- Adding CVS Repository Location
- Adding Rational ClearCase Repository

18. Business Metrics Measurements

- Interaction with Other Tools
- WebSphere Business Monitor
- Business Measure Model
- Key Performance Indicators (KPIs)
- Creating Business Measures Models