

Course name: IBM WebSphere Portal Developer Fundamentals

Code:	WP410
Language:	English
Brand:	Lotus
Additional brands:	None specified
Product:	WebSphere Portal, Portlet Factory
Release:	6.0
WW region:	WorldWide
Target audience:	System Administrator, Portlet Developer
Format(s):	Classroom Number of Days: 3 days

Introduction:

This instructor-led course is designed for corporate developers with little or no IBM® WebSphere® Portlet Factory experience, who will build portlets for the IBM® WebSphere® Portal Server. You are introduced to the WebSphere Portlet Factory as an extensible tool to rapidly create, test, and deploy highly adaptive J2EE portlets to IBM WebSphere Portal.

The course presentation is a combination of lecture, discussion, and exercises that illustrate the presented topics. The course begins with an introduction to the WebSphere Portlet Factory, its tool set and execution architecture. The first exercise, 'Hello World' portlet, demonstrates the end-to-end process of creating a WebSphere Portlet Factory portlet, making it available to WebSphere Portal, and then displaying it in a WebSphere Portal page.

The remainder of the course presents building adaptive and customizable portlets using the WebSphere Portlet Factory models, Builders, and profiles. The course includes exercises designed to illustrate the WebSphere Portlet Factory's value-add benefits, and then present basic UI building and application flow, the creation and consumption of Web services, the reuse of existing enterprise resources including database data, and customization with profiles. The later portions of the course present higher-level builders that incorporate many functions into one component. The concluding exercises lead students to create custom data model services and use advanced page automation techniques.

Prerequisites

The prerequisites for this course include:

- Working knowledge of the Java programming language (strong Java skills not required)
- Working knowledge of XML as a data structure
- Theoretical knowledge of J2EE architecture recommended (proficiency in J2EE development not required)

Skills taught

- WebSphere Portlet Factory execution architecture
- Building and testing basic portlets
- Configuring WebSphere Portlet Factory portlets into WebSphere Portal Server (WPS)
- Exposing portlets for customization and personalization through WPS
- Creating and consuming Web services with WebSphere Portlet Factory

- Consuming enterprise data with WebSphere Portlet Factory
- Understanding how to use new high-level Builders as they become available

Course objectives and duration:

- After completing this course, you should be able to
- Understand the primary functions of Portlet Factory
- Describe Portlet Factory execution architecture
- Understand the concept and mechanics of regeneration
- Use the Portlet Factory Designer plug-in
- Build and test basic models which function as standalone and portal-based
- Understand Portlet Factory's data services architecture
- Build a basic "services" model
- Build a basic "presentation" model
- Profile a model for external configuration and reuse
- Build a basic "customizer" model
- Build a model that uses custom data services
- Build a model that uses page automation techniques

Day 1

The following table shows the course outline for Day 1 with approximate timing.

Topics and Labs Timing

- Introduction 30 minutes
- Portlet Factory Overview 30 minutes
- Execution architecture and regeneration 30 minutes
 - o Lab 1: Install and Configuration 1 hour
- Portlet Factory Designer 30 minutes
- Simple model architecture 15 minutes
- From Core Factory to Portlet Factory 15 minutes
 - o Lab 2: Hello World application and portlet 30 minutes
- Portlet Factory Data Services 15 minutes
 - o Lab 3: Creating Data Services 2 hours

Day 2

The following table shows the course outline for Day 2 with approximate timing.

Topics and Labs Timing

- Day one review 15 minutes
- Portlet Factory Page Automation 30 minutes
 - o Lab 4: Consuming Data Services 1 hour
- Application architecture using multiple models 15 minutes
 - o Lab 5: Working with the Imported Model 30 minute
- Portlet Factory profiling mechanics 30 minutes
 - o Lab 6: Profiling a Portlet Factory model 2 hours
- Creating a customizer for a profiled model 15 minutes
 - o Lab 7: Profiling in WebSphere Portal 15 minutes

Day 3

The following table shows the course outline for Day 3 with approximate timing.

Topics and Labs Timing

- Day two review 30 minutes
 - o Lab 8: Implementing custom data services 2 hours
 - o Lab9: CRUD support with Page Automation 2 hours and 30 minutes
- Q&A and ad-hoc topics
- Wrap-up

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