

## **Open Lab Catalog**

### **Product Technology Center (San Polo 3401)**

The open labs consist of a large selection of lab exercises on various SOA, BPM, infrastructure and connectivity products. You can come in any time during the hours listed below, select a lab, and work at your own pace. You may complete any of these exercises as you wish. After you have browsed the below catalog, please let the proctor know which lab you would like to start with.

Monday	11:00am - 5:00pm
Tuesday	10:30am - 5:00pm
Wednesday	10:30am - 5:00pm
Thursday	9:00am - 5:00pm
Friday	9:00am - 11:00am

#### **OL001 Try Out Online tools to Simplify Software support**

Complex environments need simple support solutions. Stop by the Electronic Support open lab to try first-hand the online tools and resources that can save you time and simplify your support experience. These tools are yours for the asking, at no extra charge. Add efficiencies to your day-to-day operations to keep your software environment running smoothly.

#### **OL002 Create a SOA service based on a Java class using IBM® Rational® Application Developer**

Use IBM® Rational® Application Developer for WebSphere® within IBM Rational Software Architect to understand how SOAP/HTTP-based Web services interfaces can be developed to maximize service reuse. The objective of this exercise to enable you to see how information can be exchanged easily between different programs when Web services interfaces are constructed properly.

#### **OL003 Create a Web User Interface and a Portlet for an REST Service using IBM® WebSphere® Portlet Factory® Designer installed in Rational® Software Architect.**

The purpose of this exercise is to show how user interfaces leveraging REST services can be developed and deployed using IBM® WebSphere® Portlet Factory® Designer installed in Rational® Software Architect. You will develop a simple web-based user interface that exploits an existing external service published in the REST style and which returns data in the Atom format. You will test your new interface by first deploying it as a J2EE web user interface in IBM WebSphere Application Server Community Edition®, and then by deploying it as a Java™ standard Portlet in IBM WebSphere Portal Server to compare results.

## **OL004 Control and direct the creation of new services using IBM® WebSphere® Integration Developer and IBM Rational® Asset Manager.**

You will learn best practices for implementing required services oversight using IBM® WebSphere® Integration Developer and IBM Rational® Asset Manager. Through guided scenarios, you are able to define roles and confirm the assigned responsibilities as outlined by a governing business process. As the Service Implementer, you will validate and complete the creation of a business service. Then, as the Service Architect, you evaluate this asset to ensure it meets the needs of your Asset Consumers. You complete the trial as a consumer by searching the asset repository to locate and activate your new service. Capabilities in Rational Asset Manager support well disciplined and organized reuse while offering integration with the Rational Software Delivery Platform that makes it easier to put SOA enabled reuse into practice.

## **OL005 Improve SOA Quality through effective performance testing using IBM Rational® Tester for SOA Quality**

Learn how easily Web Services can be tested using Rational® Tester for SOA Quality. Rational Performance Tester supports the recording of client-service invocations as well as the creation and automated playback of suites of automated tests for the purpose of calling any SOAP or REST enabled Web Service component. In this exercise, you will complete the recording and execution of a StockQuote sample (i.e. Web service), which you will stress test it to confirm the results.

## **OL006 Building an IBM Mashup Center iWidget using WebSphere sMash**

Using IBM WebSphere sMash, you will develop, test and run a simple Web 2.0 application to track energy usage. First, you will create an iWidget to prompt end-users to answer a series of questions regarding their daily energy usage. You will integrate it with a pre-built application in IBM Mashup Center to assemble a solution that provides appropriate energy-saving recommendations tailored for each end-user.

## **OL007 Implement a Customer Loyalty Scheme using IBM WebSphere Business Events**

You will build and run a customer loyalty scheme to correlate events that occur within a retailer's online and physical, brick-and-mortar stores. When a customer buys an item online, your company sends the customer a text message confirming their purchase. Your objective is to use WebSphere Business Events to identify loyal customers and entice them to make their next purchase in one of your physical stores by offering special incentives.

## **OL008 Managed File Transfer using IBM WebSphere MQ File Transfer Edition**

Use IBM WebSphere MQ File Transfer Edition Version 7.0.2 to configure and simulate a file transfer using built-in scripting and automation, and then review your results.

## **OL009 Wrap existing COBOL programs as Web Services with IBM Rational Developer for System z**

This tutorial shows how IBM® Rational® Developer for System z can help speed efficiency of traditional mainframe, Web development and composite applications. The new capabilities help customers reduce cost and risks of rewrites by reusing and integrating core application assets with Web services and modern user interfaces.

## **OL010 Transform 3270 green screens into Web Services applications**

This tutorial teaches you how to use IBM® Rational® Host Access Transformation Services (HATS) to create a Web service that exposes logic contained in an IBM® System z® 3270 application.

## **OL011 Core Banking Transformation with Rational Developer and Rational Team Concert for System z**

This lab demonstrates the integration of Rational Team Concert for System z integrated and Rational Developer for z (RDz). The example scenario show of how you can leverage collaborative application lifecycle management tools from Rational to simplify maintenance of core banking systems on the mainframe.

## **OL012 Introduction to IBM® WebSphere® Transformation Extender Version 8.2 Design Tools**

The new Eclipse-based design studio included in IBM WebSphere Transformation Extender Version 8.2 is now contained within one graphical user interface. In this exercise, you will use the COBOL copybook importer to automatically create a WebSphere Transformation Extender type tree, which you will customize using the type designer. Then you will create a map that transforms into an XML document the simple text document you imported into your type tree.

## **OL013 Business Space - Configuration and Personalization Options**

Learn the basic administration features of Business Space in version 7. Experience creating a space and pages along with personalizing and granting security authorizations.

## **OL014 Exploring the WSRR Business Space**

Create a business space from the Service Registry and Repository template and use the service registry search, collection, detail, reuse, and actions widgets to view and create data in WebSphere Service Registry and Repository.

## **OL015 WSRR Policy Analytics**

Create a business space from the Service Registry and Repository Policy Analytics template and use the Policy Analytics widgets to view governance policy effectiveness within WebSphere Service Registry and Repository, You will also use the Policy Analytics to view WS-I compliance effectiveness with WebSphere Service Registry and Repository.

## **OL016 WBE - New Enhancements in Design Data**

Explore WebSphere® Business Events as you build a small application around the scenario of an insurance company identifying business opportunities by using business event processing.

## **OL017 WBE - New Design and Test Tool Widgets in Business Space**

In this exercise, you will set up the Design and Test Tool widgets, load the required Project files and create the Interaction Sets and Filters that will provide you with the insight for getting acquainted with the new tools and capabilities.

## **OL018 ILOG Visualization Products**

Are you working on a software project that needs to deliver a user interface? Do you need to deliver your business data to users in a highly effective way? Do you want it to be **functional** but also **look great** at the same time? Does it need that "WOW effect"?

Then come explore some of the Visualization software offerings from IBM ILOG. These products enable developers to add richly graphical and highly interactive displays to the user interfaces they are building. The benefits? Developers save at least 50% of their effort, projects deliver software on time, and end users get a great user experience.

We'll present a series of interactive, real-life applications, using a variety of desktop and Rich Internet Application technologies to show you what's possible. **To get started, click on the "IBM ILOG Visualization Products" icon that you'll find on the machine desktop (or in the browser's Favorites menu).**

## **OL019 Introduction to WebSphere Message Broker: Open Lab**

WebSphere Message Broker V7 provides you with powerful tools to connect applications together regardless of the message formats and protocols they support. This lab leads you through some connectivity scenarios based on a number of usage patterns. Depending on your interests, you can tackle some individual scenarios or all of them.

## **OL020 WebSphere Message Broker: Connectivity Options Open Lab**

So you've heard the theory, but what types of workloads and architectures have real users actually implemented with IBM WebSphere Message Broker? What do you think about the latest version? Come along, ask questions of your fellow users and share your own experiences.

### **OL021 Build SOA applications with lightweight WebSphere Application Server Community Edition**

You will leverage Eclipse Galileo to setup, deploy, and test a Web services application against WAS CE. In addition, you will also explore the capabilities of the Eclipse Web services tool for generating Web services, as well as embedded tooling in WAS CE that aid in creating WSDL files and source.

### **OL022 Model and analyze an SOA IT architecture using Rational System Architect**

In this exercise, you will use the analyst tools included in Rational System Architect Version 11.3 to highlight and reveal important facts about the relationships between systems in a sample architecture to formulate plans for system changes.

### **OL023 Virtualizing your Application Server Infrastructure with WebSphere Virtual Enterprise**

You will learn how WebSphere Virtual Enterprise V6.1 can virtualize your Application Server infrastructure to enable smooth deployment and management of applications. Through the use of simple interfaces highlighted in his exercise, you will manage the upgrade of an application while under continuous load.

### **OL024 Apply Business Rule Management technology to enable business control of automated processes**

Learn how business managers, analysts, architects and developers can leverage specially designed tools in IBM WebSphere ILOG Business Rule Management Systems (BRMS) to provide easy, safe and predictable control over automated business decisions. to automate decision making tasks.

### **OL025 Introduction to the IBM Client for Smart Work**

The IBM Client for Smart Work (ICSW) is a security-rich and cost-effective desktop that provides flexibility, choice and a low total cost of ownership. The ICSW solution includes an open standards-based operating system, productivity editors, real time communication, email, social computing and other software that can be used on a variety of netbooks, thin hardware clients, and desktops/laptops. Developed in partnership with Canonical and Red Hat linux desktop distributors, the IBM Client for Smart Work offers a complete, open, easy to use, and security-rich desktop alternative.

This lab provides a guided, gentle introduction to the ICSW, including basic desktop navigation and introductions to the Firefox web browser, the Lotus Symphony productivity suite and Lotus Live collaboration.

### **OLO26 Administering and Using JMS in WebSphere MQ**

The lab demonstrates the steps needed to configure and run a JMS application in WebSphere MQ, starting from creating administered objects and setting up a code development environment to finishing with running a simple application.

### **OLO27 Administering Publish/Subscribe Messaging in WebSphere MQ**

The Publish/Subscribe messaging domain was fully integrated in to WebSphere MQ in version 7. This lab demonstrates how the new Publish / Subscribe related objects can be administered using either the MQSC command line utility or MQ Explorer GUI.

### **OLO28 Using Publish/Subscribe Messaging in WebSphere MQ**

The Publish/Subscribe messaging domain was fully integrated in to WebSphere MQ in version 7. This lab demonstrates how the new Publish / Subscribe API can be used and the key functionality it offers, starting from exploring some simple sample applications and modifying these to exhibit different behaviours.

### **OLO29 Asynchronously Consuming Messages in WebSphere MQ**

The ability to asynchronously consume messages without polling was introduced in WebSphere MQ version 7. This lab demonstrates how the new verbs in the MQI API can be used by first examining and then modifying some simple applications.

### **OLO30 Introduction to the Lombardi BPM Suite**

Come get an up-close look at business-led, collaborative BPM. This lab will provide a hands-on tour of the key functions of IBM Websphere Blueprint and Teamworks to demonstrate how your organization can establish a repeatable, business-facing process improvement capability today.

### **OLO31 Lab: Collaborative Business Discovery and Design**

BPM is a team discipline. IBMs BPM suite allows business leaders to collaborate within and outside the organization to achieve strategic objectives. Whether it is fitting internal capabilities to external opportunities via the BPM BlueWorks community or creating and iterating strategies and processes to maximize ROI via WebSphere Business Compass, IBMs BPM suite has the tools to help you discover and design your business solutions. This hands-on lab is an introduction to the business process design, discovery, and modeling capabilities that you and your team need to develop process solutions; from

identifying strategy gaps to creating a working model that can be tested and evolved to adapt with the changing needs of your organization.

### **OLO32 Accessing Existing CICS/VSAM application from iPhone**

This tutorial will show you how you can easily create a Web 2.0 application that reuse and existing z/OS application in an easy and efficient way using IBM Rational Business Developer.

### **OLO35 Transform 5250 green screens to Web applications using Rational Host Access Transformation Services for Multiplatforms:**

This tutorial demonstrates how to use IBM® Rational® Host Access Transformation Services (HATS) to create a Web application that exposes an IBM® Power Systems™ 5250 application to the Web.

### **OLO36 Introduction to Rational Developer for Power Systems Software**

This Lab is the first in a series of Labs that introduce Rational Developer for Power System Software (RD Power). The complete set of Labs show how to edit, compile, debug and sample IBM i application. The Labs also show how to use the RD Power Application Diagram Viewer, Screen designer, and Report Designer.

### **OLO37 WebSphere Business Compass Lab 1: Overview and Exploration of Strategy and Capability Maps**

The first in a series of 3 labs providing a hands-on introduction to the business design capabilities of WebSphere Business Compass v7.0. No prior experience is required. Lab 1 begins with a high level introduction to WebSphere Business Compass and the business design space. You will examine each of the business design document types and explore how you can create, update, delete, link, and share business design documents you create. Next is a detailed exploration of the Strategy and Capability Map documents. First, you will enhance an existing strategy map, exploring the different ways of adding new elements to and enhancing the appearance

### **OLO38 WebSphere Business Compass Lab 2: High Level Process Design**

The second in a series of 3 labs providing a hands-on introduction to the business design capabilities of WebSphere Business Compass v7.0. No prior experience is required. Lab 2 covers the creation of a high level process design using the Business Compass process editor. You will start by creating a new process document, exploring the different the different ways of adding and linking new elements in the process flow. Next, you will learn how to specify roles for individual tasks and view the process in swimlane layout. You'll learn how to specify inputs and outputs for individual tasks and how to create links from the process to other supporting business design documents. Once the the high level design is complete you'll use the Process Walkthrough capability

to validate your work, evaluating different scenarios to ensure that the process works as intended. Once you've completed lab 2 you'll understand how to complete a high level process design using WebSphere Business Compass.

### **OLO39 WebSphere Business Compass Lab 3: Enhancing Process Details**

The third in a series of 3 labs providing a hands-on introduction to the business design capabilities of WebSphere Business Compass v7.0. No prior experience is required. Lab 3 builds on the high level process design of Lab 2, explaining how to add additional details to the process model. First, you'll learn how to designate generic process tasks with specific implementation types and link them with additional design information relevant for their implementation. For example, you'll designate manual activities as user tasks associate them with a user interface design. You'll also learn how to refactor complex tasks as sub-processes. Next, you'll learn how to update the model with details explaining how data is used in the process. Last, you'll use the Process Advisor to discover and resolve issues detected in the model. Once you've completed lab 3 you'll understand how to elaborate on a high level process design using WebSphere Business Compass.