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Developing Applications in IBM Business Process Manager Advanced V8.5.5 - II
Information

Length:	40.0 Hours
Ref:	WB858G
Delivery method:	ClassroomInstructor Led Online
Price:	AUD

Overview

An updated version of this course is available. For more information, click [Developing Applications in IBM Business Process Manager Advanced V8.5.7 - II \(WB861G\)](#).

This course is also available as self-paced virtual (e-learning) course [Developing Applications in IBM Business Process Manager Advanced V8.5.5 - II \(ZB858G\)](#). This option does not require any travel.

This course continues to build the skills and concepts that are learned in [Developing Applications in IBM Business Process Manager Advanced V8.5.5 - I \(WB857G\)](#). That course introduced the service-oriented architecture (SOA) approach to business process management (BPM), and covered how to build a basic process integration solution. In this course, you learn how to extend the functionality of that solution to accommodate more process integration scenarios.

Through presentations and hands-on lab exercises, you learn about the Service Component Architecture (SCA) programming model and runtime environment, XML (business object) support, Business Process Execution Language (BPEL) handlers, business state machines, and SCA transactions. You also learn about business process dynamicity and flexibility, relationships, and mediation primitives. Other topics include creating versions of SCA components, test environment capabilities, and approaches to securing SCA applications.

You use the IBM Process Center repository to add process model artifacts in a complete and integrated development solution. You learn how to handle advanced integration services faults and how to apply governance to process applications. You also explore a sample Industry accelerator asset and a case management implementation.

In addition, you use IBM Integration Designer to design, develop, and test comprehensive process integration solutions. The solutions use the SCA programming model, the Service Data Object (SDO) data model, and the mediation flow programming model. You learn how to deploy these solutions to the IBM Process Server runtime environment, maintain them in the IBM Process Center repository, and test them in the IBM Integration Designer test environment. The course also covers how to use the tools of IBM Business Process Manager for iterative (model-driven) application development. For example, you learn

how to develop a process diagram in IBM Process Designer, store it in the IBM Process Center repository, and associate it with modules and libraries in IBM Integration Designer.

The lab environment for this course uses the Windows 2008 server R2 64-bit platform.

For information about other related courses, visit the IBM Training website:

<http://www.ibm.com/training>

Public

This intermediate course is designed for integration developers and other application development specialists.

Prerequisites

You should have completed:*Developing Applications in IBM Business Process Manager Advanced V8.5.5 - I* (WB857G) **or** *Developing Applications in IBM Business Process Manager Advanced V8.5.5 - I* (ZB857G).

You should also have:

- Basic Java and Java 2 Platform, Enterprise Edition (Java EE) skills
- Experience with, or prior education on, WebSphere Application Server, or experience with Rational Application Developer
- Basic Extensible Markup Language (XML) skills

Objective

- Create and modify an application by using iterative, model-driven development
- Develop a business process diagram in IBM Process Designer
- Work with a process application snapshot in IBM Integration Designer
- Associate IBM Integration Designer artifacts with a process application snapshot
- Use artifacts from an IBM Integration Designer library in a business process diagram
- Implement and deploy SCA modules and libraries that contain version information
- Use the serviceDeploy tool to install versioned modules in an IBM Process Server profile
- Enable cross-component trace to follow the invocation sequences between SCA applications to diagnose and repair an application failure
- Implement the event sequencing quality of service qualifier in an application
- Implement a WebSphere MQ import in an application
- Implement a fault handler and compensation handler in a business process
- Handle Advanced Integration Services (AIS) faults
- Examine and test a business state machine
- Examine the transaction propagation settings and transaction quality of service qualifier settings for an application
- Implement a selector component and dynamically navigate a business process instance at run time

- Implement a static (lookup) relationship
- Create a service aggregation mediation flow by using several pre-built mediation primitives
- Create a reusable mediation subflow that contains error handling primitives
- Examine a sample claims industry accelerator asset in IBM Business Process Manager
- Explore a sample case management process application implementation
- Configure security quality of service qualifiers and implement role-based security for human tasks and business processes
- Apply governance to process applications
- Configure IBM Business Process Manager Advanced tools for integration with other applications, such as IBM Integration Bus and IBM Business Monitor