Application Developer skills for IBM WebSphere Process Server V7

Role
The application developer is responsible for assembling application components into a complete and integrated BPM solution, and preparing this solution for thorough testing and subsequent deployment. The application developer enables access to a range of data sources for other developers, which may include establishing relational views over federated sources (heterogeneous relational databases, data access layer developer queues, or Web services), writing entity beans to enable correlated access to federated sources, or developing Web services that provide access to federated sources.

Assumptions
It is assumed that the individual following this roadmap has basic skills in the following areas:
- Good understanding of business solutions and the business environment
- Knowledge of application components and services, and the ability to implement their efficient collaboration at run time
- Understanding of different data sources, and data access issues such as transactions
- Familiarity with J2EE Web services

Objectives
After completing this training, students should be able to:
- Describe the purpose and business value of WebSphere Integration Developer, Process Server, Enterprise Service Bus, and the service-oriented architecture approach to integration
- Use WebSphere Integration Developer to create business objects, shared interfaces, and business calendars
- Complete business processes using the WebSphere Integration Developer Business Process Choreography tooling
- Use SCA bindings to communicate with a Web service
- Use WebSphere J2EE Connector Architecture (JCA) Adapters to integrate enterprise applications
- Implement interface maps to mediate component interfaces and create business object maps to transform business data
- Implement mediation modules
- Implement a business rule group and edit business rule parameters at run time
- Implement human tasks in a business process
- Create and run a component test project and use the WebSphere Integration Developer debugger to step through breakpoints in an application
- Collect Common Event Infrastructure events and view them using the Common Base Event browser
- Describe WebSphere business process management (BPM) for the SOA development life cycle
- Explain how asynchronous communication works in WebSphere Process Server
- Describe the Java Message Service (JMS) and Service Integration Bus (SIBus)
- Explain how SOAP messages can be mediated using JAS-WS handlers in WebSphere Process Server
- Describe the major functions of cross-component tracing
- Describe the failed event recovery capabilities of WebSphere Process Server
- Describe the transactional behavior of Web Services Business Process Execution Language (WS-BPEL) activities
- Implement fault handlers, compensation handlers, and event handlers in a BPEL
- Identify the data flow in a state-driven business state machine (BSM)
- Explain essential mapping concepts
- Explain the relationship between interface mapping and business object (BO) mapping components
- Implement an interface mapping component using custom Java transformations, taking a top-down development approach
- Identify the need for a polymorphic map and implement multi-input maps
- Use the visual snippet editor to invoke business object maps from a BPEL
- Describe identity and static relationships
- Implement dynamic and static relationship definitions to cross-reference data across multiple applications
- Pre-populate the relationship tables using the Relationship Manager tool, SQL view, or the Relationship Service Java APIs
- Manage relationship instances by using Relationship Manager Web applications at run time
- Implement a composite relationship definition to cross-reference child level business objects
- Describe versioning and dynamicity in WebSphere Process Server
- Combine business rules and selectors to implement dynamic behavior in an SCA application to allow for future flexibility
- Describe security considerations for using WebSphere Process Server
- Describe team development and use of a version control system in WebSphere Integration Developer
- Configure WebSphere Integration Developer in order to use CVS for source control

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**Certification test**
See certification Web site for test preparation

**Test C2180-607**
IBM Certified Integration Developer – WebSphere Process Server V7.0