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IBM Integration Bus V9 Application Development I  
Information

<b>Length:</b>	5.0 Days
<b>__Ref:</b>	WM665G-X
<b>Delivery method:</b>	ClassroomInstructor Led Online
<b>Price:</b>	EUR

Overview

This course is also available as self-paced virtual (e-learning) course, *IBM Integration Bus V9 Application Development I* (ZM665G). This option does not require any travel.

An updated version of this course is available. For more information, click *IBM Integration Bus V10 Application Development I* (WM666G).

In this course, you learn how to use IBM Integration Bus to develop, deploy, and support platform-independent message flow applications. These applications use various messaging topologies to transport messages between service requesters and service providers, and also allow the messages to be routed, transformed, and enriched during processing.

The course explores message flow problem determination, with an emphasis on identifying and recovering from errors in message flows. You learn how to construct message flows that use extended Structured Query Language (ESQL), Java, and the IBM Graphical Data Mapping editor to transform messages. The course also explores how to control the flow of messages by using various message processing nodes, and how to use databases and maps to transform and enrich messages during processing. You review various messaging transports at a high level and gain a basic understanding of how message flows can use web services, Java Message Service (JMS), and other transport mechanisms. Finally, you explore how to extend IBM Integration Bus by using adapters and other IBM products.

Throughout the course, hands-on lab exercises allow you to practice the skills and concepts that are presented in the lectures. The hands-on labs cover topics such as creating and testing message flows, message modeling, problem determination, and error handling.

For information about other related courses, visit the IBM Training website:  
<http://www.ibm.com/training>

Public

This course is designed for experienced integration specialists and senior-level developers with experience

in application development and WebSphere MQ.

## Prerequisites

You should have:

- Basic experience with WebSphere MQ administration
- A basic understanding of current IT technologies such as Structured Query Language (SQL), Extensible Markup Language (XML), Java, **and** XML Path language (XPath)
- An understanding of the business needs of your organization

## Objective

- Describe the features and uses of the IBM Integration Bus
- Develop, deploy, and test message flows
- Generate message flows from predefined patterns
- Use IBM Integration Bus problem determination aids to diagnose and solve development and runtime errors
- Describe the function and appropriate use of various message processing nodes
- Write basic ESQL and Java methods to transform messages
- Use the IBM Graphical Data Mapping editor to transform messages
- Define, use, and test simple XML and Data Format Description Language (DFDL) message models
- Describe supported transport protocols and how to call them in message flows
- Describe IBM Integration Bus integration with other IBM products such as IBM Business Process Manager, WebSphere Enterprise Service Bus, WebSphere DataPower, and WebSphere Transformation Extender
- Extend IBM Integration Bus functions by using WebSphere Adapters and plug-ins
- Describe the packaged application support for SAP, Siebel, and PeopleSoft

## Topics

- Course introduction
- Introduction to IBM Integration Bus
- Application development fundamentals
- Exercise: Importing and testing a message flow
- Developing message flows
- Exercise: Implementing a message flow pattern
- Using problem determination tools and help resources
- Exercise: Analyzing runtime error scenarios
- Exercise: Using problem determination tools
- Using compute nodes to transform messages
- Exercise: Implementing a message flow

- Controlling the flow of messages
- Exercise: Adding flow control to a message flow
- Exercise: Implementing explicit error handling
- Modeling messages
- Exercise: Implementing a message model
- Mapping messages with the Graphical Data Mapping editor
- Referencing databases in a message flow
- Exercise: Referencing a database in a map
- More message processing nodes
- Message transports overview
- Preparing for production
- Exercise: Creating a runtime-aware message flow
- Extending IBM Integration Bus
- Course summary