IBM MQ V8 Application Development (Windows Labs)

Information

Length:	3.0 Days
__Ref:	WM507G-X
Delivery method:	ClassroomInstructor Led Online
Price:	EUR

Overview

An updated version of this course is available. For more information, click *IBM MQ V9 Application Development (Windows Labs)* (WM513G).

This course is also available as self-paced virtual (e-learning) course *IBM MQ V8 Application Development (Windows Labs)* (ZM507G). This option does not require any travel.

This course focuses on procedural application development for IBM MQ. It covers basic concepts applicable to most IBM MQ versions, new IBM MQ V8 capabilities, and V8.0.0.4 capabilities such as capped message expiry, redistributable clients, and URL support for client channel definition tables.

The course begins by describing IBM MQ, explaining the impact of design and development choices in the IBM MQ environment. It then describes IBM MQ application programming concepts, and provides programming topics and exercises to develop the skills necessary to implement various application requirements. These topics include methods of putting and getting messages, identifying code that creates queue manager affinities, and working with transactions. The course then provides lectures and hands-on experience with IBM MQ clients, and use of the publish/subscribe messaging style. Finally, the course describes the IBM MQ Light interface, introduces Advanced Message Queuing Protocol (AMQP), and explains how to set up an AMQP channel and how to interface with IBM MQ Light.

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

http://www.ibm.com/training

Public

This course is designed for application developers and architects who are responsible for the development and design of IBM MQ applications.

Prerequisits

- Successful completion of *Technical Introduction to IBM MQ* (WM103G), or comparable experience

with IBM MQ
- Experience in business application design
- Experience in C language development

Objective

- Describe key IBM MQ components and processes
- Explain the impact of design and development choices in the IBM MQ environment
- Describe common queue attributes and how to control these attributes in an application
- Differentiate between point-to-point and publish/subscribe messaging styles
- Describe the calls, structures, and elementary data types that compose the message queue interface
- Describe how IBM MQ determines the queue where messages are placed
- Explain how to code a program to get messages by either browsing or removing the message from the queue
- Describe how to handle data conversion across different platforms
- Explain how to put messages that have sequencing or queue manager affinities
- Explain how to commit or back out messages in a unit of work
- Describe how to code programs that run in an IBM MQ Client
- Explain the use of asynchronous messaging calls
- Describe the basics of writing publish/subscribe applications
- Describe the Advanced Message Queuing Protocol (AMQP)
- Differentiate among the various IBM MQ Light AMQP implementations
- Explain how to use IBM MQ applications to interface with IBM MQ Light

Topics

Course introduction
IBM MQ overview
Exercise: Working with IBM MQ to find your message
Basic design and development concepts
Exercise: Getting started with IBM MQ development
MQOPEN, queue name resolution, and MQPUT
Exercise: Working with MQOPEN and queue name resolution, MQPUT, and MQMD fields
Getting messages and retrieval considerations
Exercise: Correlating requests to replies
Data conversion
Bind and Message groups
Committing and backing out units of work
Exercise: Commit and back out review
Asynchronous messaging
Exercise: Asynchronous messaging review

IBM MQ clients
Exercise: Working with an IBM MQ client
Introduction to publish/subscribe
Exercise: Working with publish/subscribe basics
Advanced Message Queuing Protocol (AMQP), IBM MQ Light, and IBM MQ
Exercise: Connecting IBM MQ Light applications to IBM MQ applications
Course summary