



## TRAINING OFFERING

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# IBM MQ V9 Application Development (Windows Labs)

CODE:	LENGTH:	PRICE:
WM513G	3 days	£1,950.00

## Description

This course is also available as self-paced virtual (e-learning) course IBM MQ V9 Application Development (Windows Labs) (ZM513G). This option does not require any travel.

This course helps you develop the skills that are necessary to implement various application requirements on IBM MQ versions up to and including IBM MQ V9.0.2. It focuses on procedural application development for IBM MQ.

The course begins by describing IBM MQ and the effect of design and development choices in the IBM MQ environment. It then covers IBM MQ application programming topics such as methods of putting and getting messages, identifying code that creates queue manager affinities, working with transactions, and uses 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.

Hands-on exercises throughout the course reinforce the lecture material and give you experience with IBM MQ clients.

For information about other related courses, see the IBM Training website: [ibm.com/training](http://ibm.com/training)

## Objectives

- Describe key IBM MQ components and processes
- Explain the effect 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

## Audience

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

## Prerequisites

- 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

## Programme

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) and IBM MQ Light  
Exercise: Connecting IBM MQ Light applications to IBM MQ applications  
Course summary

## Further Information

Prior to enrolling, IBM Employees must follow their Division/Department processes to obtain approval to attend this public training class. Failure to follow Division/Department approval processes may result in the IBM Employee being personally responsible for the class charges.

GBS practitioners that use the EViTA system for requesting external training should use that same process for this course. Go to the EViTA site to start this process:

<http://w3.ibm.com/services/gbs/evita/BCSVTEurl.nsf>

Once you enroll in a GTP class, you will receive a confirmation letter that should show:

- The current GTP list price
- The 20% discounted price available to IBMers. This is the price you will be invoiced for the class.

## Session Dates

On request. Please [contact us](#)

## Additional Information

[This training is also available as onsite training. Please contact us to find out more.](#)